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CONSOLIDATED TRANSLATION SURVEY

Number 71

For November 1963

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CONSOLIDATED TRANSLATION SURVEY

FOR NOVEMBER 1963

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CONSOLIDATED TRANSLATION SURVEY

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Some of the above details may be unavailable on projects listed "in process." New projects in process will be listed only once, their subsequent listing being made when they are reported completed. Projects in process, i.e., not completed as of the date of this survey are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title.

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Department of Air Force Collection and Dissemination Assistant Chief of Staff, Intelligence ATTN: AFCIN 1B3 Washington 25, D.C.

AGU

American Geophysical Union 1515 Massachusetts Avenue, NW Washington 5, D.C.

ALBS

American Institute of Biological Sciences 2000 P Street, NW Washington 6, D.C.

ATEEE

American Institute of Electrical Electronic Engineers Special Subscription Department 41 East 28th Street New York 16, New York

AIP

American Institute of Physics 335 East 45th Street New York 17, New York

Amer Math Soc

American Mathematical Society 190 Hope Street Providence 6, Rhode Island

APL - Applied Physics Laboratory (see Navy)

Army Map Service - (see ACSI)

BISI

British Iron and Steel Institute 4 Grosvenor Gardens London, SW 1, England

BuShips - Bureau of Ships (see Navy)

CB

Consultants Bureau, Inc. 227 West 17th Street
New York 11, New York

CRL

Central Research Laboratoies, Research Division Broken Hill Proprietary Co, Ltd, Shortland, 2N, New South Wales Australia

CSIR

Council for Scientific and Industrial Research The Head Information Division PO Box 395 Pretoria, Africa CSIRO

Commonwealth Scientific and Industrial Research Organization 314 Albert Street
East Melbourne, C 2. Victoria
Australia

CTT

Columbia Technical Translations 5 Vermont Avenue White Plains, New York

DDC

Defense Documentation Center TISIA-1 Arlington Hall Station Arlington 12, Virginia

Dept of Com

Department of Commerce Office of Technical Services Washington 25, DC.

Dept of Int

Department of Interior Library Washington 25, D.C.

Emmanuel Coll Res Lang Ctr

Emmanuel College Research Translation Center The Fenway Boston, Massachusetts

FTD - Foreign Technology Division (see AF)

GB

Association of Special Libraries and Information Bureau 3 Belgrave Square London SW 1, England

HB

Henry Brutcher Technical Translation PO Box 157 Altadena, California

HO - Hydrographics Office (see Navy)

151

Instrument Society of America 313 Sixth Avenue Pittsburgh 22, Pennsylvania

JPRS

Joint Publications Research Service Building T-30 Ohio Drive & Independence Avenue, SW Washington 25, D.C.

Maritime Admin

Maritime Administration Office Services GAO, 5th and G Streets, NW Washington, D.C.

NASA

National Aeronautics and Space Administration 1512 H Street, NW Washington 25, D.C.

Natl Bu Stand

National Bureau of Standards ATTN: Dr Henry Birnbaum Room 314, South Building Washington, D.C.

Navy

Department of Navy Office of Naval Intelligence Washington 25, D.C.

HIIN

National Institutes of Health Translating Section, Library Building 10, Room 11N112 Bethesda 14, Maryland

NLL

National Lending Library for Science and Technology Boston Spa, Yorkshire, England

NRL - Maval Research Laboratories (see Navy)

NZDIA

Department of Internal Affairs Translation Service Wellington, New Zealand

ONI - Office of Naval Intelligence (see Navy)

OSA

Optical Society of America 1155 16th Street, NW Washington 5, D.C.

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USDA

Department of Agriculture Foreign Agricultural Service Room 5086 14th and Independence Avenue, NW Washington 25, D.C.

USRL - US Research Laboratory (see Navy)

319th MI Bn - 319th Military Intelligence Battalion (see ACSI)

519th MI Bn - S19th Military Intelligence Battalion (see ACSI)

525th MI Gp - 525th Military Intelligence Group (see ACSI)

<u>PROJECTS REPORTED</u> <u>FOR NOVEMBER 1963</u>

USSR

Economic

| | |
|---|-----------------------------|
| Analysis of the Use of Turnover Funds of an Enter- prise, by Andrey Nikitich Borodavkin, 97 pp. RUSSIAN, bk, Analiz Ispol'zovaniya Chorotnykh Sredstv Predpriyatiya, 1963, np 1-88. | JPRS 21432 |
| Determination of Economic Efficiency of New Technology in the Communications Industry. (NY-7875) RUSSIAN, bk, Opredeleniye Ekonomicheskoy Effektivnosti Novoy Tekhniki v Khozyaystve Svyazi, Moscow, 1963, pp 1-177. | *JPRS |
| Planning the Development of New Technology, by S. D. Fel'd, 46 pp. RUSSIAN, bk, Planirovaniye Razvitiya Novoy Tekhniki, Phoscow, 1961, pp. 11-73. | JPRS 21647 |
| Planning Production Costs in a Machine Building Plant, by Petr Aleksandrovich Troitskiy, M. P. Stutuchevskiy, 54 pp. RUSSIAN, mono, Planirovaniye Sebestoimosti na Mashinostroitel nom Zavode; Metodika i Prakika, Moscow, 1959, pp 5-35, 106-129. | JPRS 21525 |
| Prospects for Development of a Power Base for Central Kazakhstan, In Connection With the Planned Introduction of Irtysh Waters in Depth, by V. A. Kiktenko, S. Ya. Mayzel, 13 pp. RUSSIAN, bk, Problema Vodoobezpecheniya Tsentralnogo Kazakhstana, 1960, pp 301-313. | ACSI I-3337-A ID 2246286 |
| Foreign Trade of the USSR for 1962, 227 nm. RUSSIAN, bk, Vneshnyaya Torgovlya SSSR, Za 1962 God, Moscow, 1963, nm 1-235. | JPRS 21948 |
| Petroleum-Prospecting Activities in Siberia, by N. Zapivalov, K. Shpil'man, 6 np. RUSSIAN, per, Agitator, No 16, 1963, np 47-49. | JPPS 21711 |
| Improvements Must Be Made in the Training of Architectural Cadres, by I. Nikolayev, 10 pp. RUSSIAN, per, Arkhitektura SSSR, No 8, 1963, pp 41-43. | JPRS 21878 |
| The Press Helps to Build the Large Scale Chemical Industry, 5 pm. RUSSIAN, np, Bakin Rabochiy, 31 Aug 1963, n 3. | JPRS 21646 |

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| Economic (Contd) | | |
|---|-------|-------|
| Greater Use of Lightweight Concretes in Manufacture of Products Needed, by V. M. Moskvin, G. A. Buzhevich, et al, 8 pp. RUSSIAN, per, Beton i Zhelezobeton, No 7, 1963, pp 289-292. | .tprs | 21468 |
| Production of Keramzit Concrete Should Be Developed and Its Utilization in Construction Expanded, 9 op. RUSSIAN, per, Beton i Zhelezobeton, No 7, 1963, pp 335 | | 21468 |
| Progress of Construction in 1963, 6 np. RUSSIA", per, Beton i Zhelezobeton, No 8, 1963, pp 337, 338. | JPRS | 21914 |
| Improvement in Chamber Systems for Working Sloping Ore Deposits in the Urals, by V. A. Shchelkanov, 7 pp. | | |
| RUSSIAN, per, Byul Tekh Ekon Informat, No 7, 1963, pp 5-9. | JPRS | 21306 |
| More Use of Wind-Powered Installations Needed in Soviet Agriculture, by Ya. I. Shefter, 7 np. RUSSIAN, ner, Byul Tekh Ekon Informat, No 7, 1963, pp. 28-33. | JPRS | 21417 |
| Financing and Crediting of Capital Investments in Consumers' Cooperative System, by P. Novoselov, V. Borovikova, 13 pp. RUSSIAN, per, Den'gi i Kredit, No 7, 1963, pp 61-68. | JPRS. | 21740 |
| Selected Articles From the Russian Newspaper Ekon Gazeta. | | |
| No 33, 17 Aug 1963. Modifications in Developmental Planning of Electrical Engineering Industry to Enhance Its Importance in Soviet Economy, by N. Obolenskiy, 6 pp. (p. 3). | .IPRS | 21417 |
| Economic Work Under Focus, by F. Loshchenkov, 6 nm, (p. 4). | JPRS | 21562 |
| Low-Cost Fuel Helps Reduce Metal Production Costs, by V. Andreyev, 5 pp, (9.7). | JPRS | 21546 |
| No 34, 24 Aug 1963. Incentive for Labor, by N. Garetovskiy, 5 pm, (pp 3-5). | JPFS | 21535 |

Selected Articles From the Russian Newspaper Ekon Gazeta. (Contd)

| No 34, 24 Aug 1963. The Lack of Centralized Repair Services for Kazakhstan Industry, by V. Lunev, 5 np, (p 5). | JPRS 21489 |
|--|------------|
| How the State Bank Grants Credits for Measures for the Incroduction of New Equipment, by I. Broyde, 5 pp, (pp 5, 6). | JPRS 21473 |
| High Cost of Long-Distance Iron Ore Transportation to Kuznetsk Metallurgical Combine, by M. Shlionskiy, 5 pp, (p 7). | JPRS 21818 |
| Mismanagement at Mine imeni Dzerzhinskiy and Krivoy Rog Enterprises Entails Serious Financial Loss, by B. Zolotov, 6 pp, (p 7). | JPRS 21818 |
| Chemistry Should Develop on a National Scale, by S. Kukalenko, 6 pp, (p 10). | JPRS 21494 |
| Economic and Rational Processing of Plastics, by N. Samosatskiy, 5 pp, (p 11). | JPRS 21494 |
| A New System of Recording Fixed Assets, by P. Bezrukikh, 6 pp, (pp 11, 12). | JPRS 21473 |
| Soviet Metallurgy Suffers From Machinery Shortage, 6 np, (n 17). | JPRS 21546 |
| Geographical Location of Productive Forces, 14 pp, (pp 18-20). | JPPS 21686 |
| No 35, 31 Aug 1963. Plans Based on Strict Accounting, 6 pp, (p 3). | JPRS 21693 |
| Deputy Director of Central Asian Sovnarkhoz Questioned, Abundant Fruit, 5 pp, (p 4). | JPRS 21711 |
| Role of the Severo-Kavkazskiy Sovnarkhoz in the Fuel Economy, by A. Shul'man, 5 pp, (pp 4, 5). | JPRS 21711 |
| The Republic Balance, by A. Zuborov, 8 pm, (n 29). | JPRS 21473 |
| All Union Conference on Automation and Mechanization in Engineering and Administrative Operations in Industry and Construction, 10 np, (n 30). | JPRS 21473 |
| Standardization Among CEMA Countries, by K. Nikonov, 5 pm, (p 37). | JPRS 21541 |
| | |

Selected Articles From the Russian Newspaper <u>Ekon Gazeta</u>. (Contd)

| _ | | | |
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| | No 35, 31 Aug 1963. Ferrous Metal Production in the Soviet Bloc, by S. Plaksin, 6 pp, (p 38). | JPRS | 21541 |
| | No 36, 7 Sep 1963. Use of Welded Structures and Elements in Industry, by N. Karev, 5 pp, (p 4). | JPRS | 21773 |
| | Plant Labor Productivity Comparison, by M. Musin, M. Yegorov, 5 pp, (p 5). | JPRS | 21773 |
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| | No 37, 14 Sep 1963. Industrial Development and Specialization in Central Asia, by V. Akulintsev, 5 pp, (p 3). | JPRS | 21745 |
| | Gosplan and Sovnarkhoz Chairman Report on Draft Plans, 15 pp, (pp 4-6). | JPRS | 21693 |
| | Economic Development in the Verkhne-Volzhskiy Sovnarkhoz, by A. Maykov, 6 pp, (p 6). | JPRS. | 21745 |
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| | No 42, 19 Oct 1963, pp 12, 13. Planning Commissions Formed in Large Economic Regions, by V. Pavlenko, 8 pp. | JPRS | 21677 |
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| Effectiveness of Using New Polymer Building Materials and Products, by M. Strizhevskiy, 8 pp. | |
|---|---------------|
| RUSSIAN, ner, Ekon Stroitel, No 7, 1963, pp 28-32. | JPRS 21468 |
| For a Single Technical Policy in Construction, 9 pp. RUSSIAN, per, Ekon Stroitel, No. 8, 1963, pp. 5-8. | JPRS 21914 |
| The April 1963 Conference of the Diesel Industry, | |
| by L. K. Kollerov, 6 pp. RUSSIAN, per, Energo-Mashinostroyeniye, No 8, 1963, pp 36, 37. | JPRS 21831 |
| The April 1963 Conference of the Power-Machinery Industry, by I. Ye. Dubovskiy, V. G. Tyryshkin, et al, 9 pp. | |
| RUSSIAN, per, Energo-Mashinostroyeniye, No 8, 1963, pp 38, 39. | JPRS 21831 |
| Price Per Ton-Kilometer, by F. Sadchikov, 5 pp. RUSSIAN, per, <u>Grazhdanskaya Aviatsiya</u> , No 3, 1963, p 9. 9687681 | FTD-TT-63-789 |
| Developments in the Organization of Train Traffic, | |
| RUSSIAN, np, <u>Gudok</u> , No 197, 21 Aug 1963, pn 1, 3. | JPRS 21797 |
| Selected Articles From the Russian Newspaper Izvestiya. | |
| 16 Aug 1963, p 3. Large-Scale Production of Facing Ceramics Should Be Organized, by A. Kopeykin, 5 pp. | JPRS 21468 |
| 25 Aug 1963. The Problem of Production Costs and Quality of Footwear, by Yu. Krutogorov, 6 pp. | JPRS 21740 |
| 8 Sep 1963, p 2. Problems of Industrial Specialization, by P. Kul'vets, 5 pp. | JPRS 21524 |
| 15 Sep 1963. Cooperation Among CEMA Countries, by N. Faddeyev, 5 pp. | JPRS 21541 |
| 29 Sep 1963, p 6. Soviet Population Figures, by P. Pan'shin, 5 pp. | JPES 21878 |

| On Sheet Metal Stamping by Explosion, by M. A. Anuchin, S. M. Nosikov, et al, 7 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Mash, No 3, 1963, pp 194-199. | JPRS 21459 |
|--|-------------|
| Experience and Problems in the Field of Automation of the Machine-Building Industry of Moscow, by M. A. Razumov, 11 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Mash, No 3, 1963, | |
| pp 209-217. | JPRS 21459 |
| Perlitic Sands Are a Valuable Raw Material, by R. Bogdanyan, 7 pp. RUSSIAN, np, Kommunist, 28 Aug 1963, p 2. | JPRS 21489 |
| Selected Articles From the Russian Periodical Kommunist. | |
| No 11, 1963. A Modern Branch Structure for Industry, by S. Kheyman, 14 pp, (pp 84-93). | JPRS 21662 |
| The Chemical Industry and Food Increase, by A. Zharskiy, 8 pp, (pp 94-99). | |
| No 12, 1963. Greater Assortment and Better Quality, by B. Gogol', 12 pp, (pp 75-81). | JPRS 21740 |
| Chemistry and an Increase in Volume of Foodstuffs, by A. Zharskiy, 9 pp, (pp 94-99). | JPRS 21711 |
| No 13, 1963, pp 94-102. Economics and Law, by S. Bratus', 9 pp. | JPRS 21536 |
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| Increasing Financial Control in Enterprise Activities, by I. Timoshenko, 6 pp. RUSSIAN, per, Kormunist Moldaviy, No 7, 1963, pp 56-59. | JPRS 21562 |
| Excessive Surplus Stocks at the Enterprises, by M. Kriventsev, B. Yakerson, 6 pp. RUSSIAN, per, Kommunist Moldaviv, No 8, 1963, pp. 33-37. | TPES 21903 |
| National Economic Management of the Moldavian SSR, by Ye. Artem'yev, 5 pp. RUSSIAN, per, Kommunist Moldaviy, No 8, 1963, pp 38-41. | JPRS 21993 |

| Rates of Development of Which Central Asia is Not Aware, by V. K. Akulintsev, 8 pp. RUSSIAN, np, Kommunist Tadzhikistana, 30 Aug 1963. | JPRS 21562 |
|--|--|
| Preezing of Fruits and Vegetables With Limited Preliminary Drying, by A. S. Shelamova, N. A. Naumova, et al, 7 pp. RUSSIAN, per, Konservnaya i Ovoshchesushil Prom, No 8, 1963, pp. 15-18. | ACSI I-3484 ID 2246306 525th MI Gn |
| Specialization of Forging in the Donets DNEPR Industrial Region, by V. P. Skidan, 11 np. RUSSIAN, per, Kuznechno Shtampovochnoye Proiz, No 9, 1963, pp 37-41. | .TPP.S 21880 |
| Criticism of the Izhorskiy Plant, by I. Strogov, 5 pp. RUSSIAN, np, Leningrad Pravda, 13 Aug 1963. | JPRS 21562 |
| Problems of Heavy Machine-Building in the Leningrad Sovnarkhoz, by V. Firsov, 5 pp. RUSSIAN, np. Leningrad Prayda, 31 Aug 1963, p 2. | JPRS 21831 |
| Promotion of Large-Scale Chemical Construction Projects, 7 np. RUSSIAN, per, Mashinostroitel, No 8, 1963, np 3, 4. | JPES 21814 |
| Azovstal' Plant is Thirty Years Old, by V. V. Lenorskiy, 6 pp. RUSSIAN, per, Metallurg, No 8, 1963, pp 3, 4. | JPRS 21546 |
| Selected Articles From the Russian Periodical Metallurg i Gornorud Prom. | |
| No 3, 1963, pp 83, 84. Principal Performance Indicators of Metallurgical Plants, 6 pp. | JPRS 21546 |
| No 4, 1963. The Need for Balanced Expansion of Principal Production and Repair Facilities of the Ferrous Metallurgy, 5 pp, (pp 3-5). | JPRS 21643 |
| A Comparison of the Performance of Blast Furnaces at the Plants of the Pridneprovskiy Sovnarkhoz, by W. N. Chernov, I. T. Tkach, 12 pp, (pp 6-10). | |
| Zaporozhstal' Plant Improves Operation of Open- Hearth Shop, by V. F. Bragin, G. K. Pometun, 8 pp, (pp 20-22). | |

Economic (Contd)

Selected Articles From the Russian Periodical Metallurg i Gornorud Prom. (Contd)

| No 4, 1963. Mechanization and Automation of Production in Pipe Rolling Shops, by A. P. Ivanov, 8 pp, (pp 27-31). | Juks | 21643 |
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| Efficient Exploitation in Depth of the Krivoy Rog High-Grade Iron Ore Deposits, by A. A. Kovshulya, 9 pp, (np 34-37). | | |
| Principal Technical and Economical Performance Indicators of the Metallurgical Plants of the Ukrainian SSR for the 1958 to 1962 Period and Certain Indicators for the First Quarter of 1963, 5 pp, (pp 88, 89). | | |
| Cooperation of CEMA Countries in Power Development, by N. Popov, 9 pp. RUSSIAN, per, Mirovaya Ekon i Mezhdunarod Otnoshen, No 9, 1963, pp 100-105. | JPRS | 21787 |
| Cold-Rolling Shop Structures Assembly at Cherepovets Metallurgical Plant, by B. P. Selyanin, V. M. Allyanov, 5 pp. RUSSIAN, per, Montazhnyye i Spetsial Raboty v Stroitel, No 9, 1963, pp 7-11. | JPRS | 21873 |
| High-Speed Installation of Electrical Equipment of 1020 Pipe Rolling Mill at Chelybinsk Plant, by L. I. Shufman, D. I. Birman, 5 pp. RUSSIAN, per, Montazhnyye i Spetsial Raboty v Stroitel, No 9, 1963, pp 12-14. | ટ્રવળ | 21873 |
| Public Inspection of Economic Works, by S. Matvyeyev, 5 pp. RUSSIAN, np, Moskov Pravda, 22 Aug 1963. | JPRS | 21562 |
| General Services, by I. Ivanov, 10 pm. RUSSIAN, per, Narod Khoz, No 7, 1963, pp 48-52. | . इत्रद्रा | 21740 |
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| No 7, 1963. Reorganization is Necessary, by V. Vasil'yev, 6 pp. | Shát' | 21711 |
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| The Use of Oxygen-Enriched Air at Metallurgical Plants, by Sh. Balgozhin, 7 pp, (pp 24-27). | JPRS | 21489 |
| Problems in the Complex Utilization of the Kustanay Ores, by I. Bok, 6 pp, (pp 70-72). | Spat | 21489 |
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Selected Articles From the Russian Periodical Narod Khoz Uzbek.

| No 6, 1963, pp 3-9. Searching Out Reserves and Putting Toperation in Central Asia, by S. Kad | | 3 |
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| No 7, 1963. Region of Generous Mature and Boundl 7 nm, (nm 10-15). | less Pesources, | 1 |
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| Specialization and Its Possibilities (pp 20-28). | . 11 nn, JPRS 2171 | 1 |
| Economic Discussion at Meeting of the Active, 19 pp, (pp 41-59). | ne Party JPRS 2156 | 6 |
| The Potential for Increasing Labor I at the Central Asian Railroad, by L. 8 pp. (pp 71-74). | | 7 |
| No 8, 1963, n 20. Campaign for Greater Fertilizer Prod 12 pp. | JPRS 2138 | 9 |
| Concentrate Forces and Means on the Mor Projects. RUSSIAN, per, Ma Stroykakh Rossii, No S | IP 225030 | 3 |
| New Structures in the Ural Cities, by A RUSSIAN, per, Ma Stroykakh Rossii, No 5 pp 19, 20. | | 3 |
| Activity of the Kirovgrad Copper-Snelti by B. Ranskiy, 7 pp. RUSSIAN, per, Mauch-Tekh Obshch, No 7, | • | 9 |
| Selected Articles From the Russian Peri Nauka i Tekh, Mo 7, 1963. | | |
| Latvian Industrial Successes, by G. | Gayle, 6 nr. | |

Latvian Industrial Successes, by G. Gayle, 6 np.

The Soviet Baltic Region is Growing, by V. Sitchikhin, 7 nn, (np.8-10).

The New Industry of Estonia, by A. Veyner, 6 pp, (pp 11-13).

How Will the Fuel-Power Economy Develop, by E. Kreslin', 6 pm, (nm 14-16).

Specialization in Machine Building, by R. Codelaytis, 5 pp, (pp 17, 18).

| For the Overall Development of Chemistry, by B. Ovezov, 10 pm. RUSSIAN, per, Partiynaya Zhizn, Yo 16, Aug 1963, pp 8-13. | J¤RS | 21494 |
|---|----------|-------|
| Labor Turnover, by G. Podorov, 9 np. RUSSIAN, ner, Partiynaya Zhizn, No 17, Sen 1953, np 22-27. | Silai" | 21878 |
| Preparations for Thirteenth Soviet Trade Union Congress, 7 np. RUSSIAN, per, Partiynaya Zhizn, 'lo 18, Sen 1963, pp 3-7. | JPRS | 21878 |
| Selected Articles From the Russian Periodical Plan Khoz. | | |
| No 5, 1963, p 20. Use of Computers: Shortcomings in Use of Computing Equipment in Moscow City Govnarkhoz, by N. Kovalev, 7 pp. | երևե | 21578 |
| No 7, 1963, pp 13-22. Improving the Planning and Increasing the Effectiveness of Capital Construction, by A. Etmekdzhiyan, 15 pp. | քորց | 21468 |
| No. 8, 1963. The Balance Pethod of Labor Planning, by P. Litvyakov, 12 nm, (np. 7-14). | ટ્યવા | 21686 |
| More Extensive Use of Economic Cybernetics, by G. Pirogov, 7 pp, (pp 48-52). | מייונ | 21662 |
| An Automated Information System for Sovnarkhozes, by Yu. Chernyak, 8 pp. (pp. 52-56). | शुका | 21662 |
| Programming Investment Funds, by B. Suvorov, 3 pp, (pp 57-61). | .ग्रामुड | 21508 |
| Republic Meeting of Mcononists 24-25 May 1963, 5 pp, (pp 95, 96). | S.Jut. | 21686 |
| No 9, 1963. Reserves for an Increase in the Labor Productivity of RSFSR Industry, by V. Machikhin, 14 nm, (nm 1-9). | ಕಗಳಲ್ | 21070 |
| Fuller Utilization of Economic Incentives for the Acceleration of Technical Advancement, by Ye. Vasil'yev, I. Vakhlamov, 10 nm, (nm 10-15). | סתרן | 21878 |

Selected Articles From the Russian Periodical Plan Khoz. (Contd)

| No 9, 1963. Improved Use of Plant Capacities in L'vov Sovnarkhoz, by M. Meleshkin, 7 pp. (pp 54-57). | JPRS 21693 |
|---|------------|
| Forms of Specialization in Industry, by M. Raykov, 8 pm, (pm 58-62). | JPPS 21693 |
| Method of Computing Economic Efficiency of Soviet Industrial Firms, by M. Padonysel'skiw, 6 pp, (np 62-65). | JPRS 21693 |
| The Experience of Organization and Operation of the Firms, by Λ . Alekseyenko, 5 nm, (nm 66-68). | JPPS 21693 |
| The Reserves for Develoring Progressive Branches, by G. Fradkin, 6 nm, (nm 69-72). | JPRS 21693 |
| Selected Articles From the Pussian Towspaper Prayda. | |
| 12 Jul 1963, p 2. Introduction of Polymers Into Construction, by V. Masonov, A. Gubenko, 5 pm. | 12PS 21468 |
| 17 Aug 1963, p 2. Production Deficiencies in the Ukraine, by P. Rozenko, 7 pp. | JPRS 21562 |
| 27 Aug 1963. Duties of Managerial Workers, Sincerity and Concern for People Are Necessary, by V. Krozdenko, 5 pp. | JPRS 21711 |
| 9 Oct 1963, p 1. Reports and Elections in Party Organizations, 5 pp. | JPRS 21449 |
| 11 Oct 1963, p 2. A Matter of Primary Importance, 5 pp. | JPRS 21472 |
| Increased Output of Production Per Shift, by A. Lalayants, 7 pp. RUSSIAN, np, Pravda Ukrainy, 14 Aug 1963, pp 1, 2. | JPRS 21903 |
| Delay in Completing Repair Shops Impedes Proper Expansion of Makeyevka Plant imeni Kirov and Zhdanov Plant imeni Il'ich, by G. Limonov, | |
| I. Mel'nikov, 12 pp. RUSSIAN, np, Pravda Ukrainy, 5 Sep 1963. | JPRS 21818 |

| Production of the Gorlovka Nitrogen Fertilizers Plant, by Victor Kobzev, 6 pp. | |
|--|------------|
| RUSSIAN, np, Pravda Ukrainy, 10 Sep 1963, p 2. | JPRS 21822 |
| Training Workers, by G. Zelenko, 19 pp. RUSSIAN, per, Professional*no-Tekh Obraz, No 7, 1963, pp 1-6. | JPRS 21535 |
| Industrial Planning and Management in Armenia, by S. Oganesyan, 6 pp. RUSSIAN, per, Prom Armenii, No 6, 1963, pp 9-13. | JPRS 21773 |
| Developing the Use of the Oxygen Blast Armenian Nonferrous Metallurgy, by L. Korogleyev, 5 pp. RUSSIAN, per, Prom Armenii, No 6, 1963, pp 47-49. | JPRS 21489 |
| Organization of Constant-Flow Production in Armenias Machine Building, by L. Vardanyan, 6 pp. RUSSIAN, per, Prom Armenii, No 7, 1963, pp 26-28. | JPRS 21880 |
| Introduction of New Production Capacities Is the Main Task, 6 pp. RUSSIAN, per, Prom Stroite1, No 7, 1963, pp 2, 3. | JPRS 21711 |
| Production Troubles in the Open-Hearth Shop of the Dnepropetrovsk Tube-Rolling Mill imeni Karl Liebknecht, by Pavel Ptichenko, Grigoriy Dikhtyarenko, 6 pp. RUSSIAN, np, Rabochaya Gazeta, 14 Aug 1963, p 2. | JPRS 21461 |
| Petroleum Production Problems Need Answers, by N. Gavrilenko, 5 pp. RUSSIAN, np. Rabochaya Gazeta, 16 Aug 1963, p 2. | JPRS 21562 |
| Director of Khar'kov Air-Conditioner Plant Complains of Lack of Support in Promoting Industrial Use of Air Conditioners, by P. M. Kucherov, 12 pp. RUSSIAN, np, Rabochaya Gazeta, 16 Aug 1963, pp 2, 3. | JPRS 21417 |
| Cooperation in Development of Ocean Fishing, by G. K. Voytolovskiy, 5 pp. RUSSIAN, per, Rybnoye Khoz, No 8, 1963, pp 83-85. | JPRS 21541 |

Selected Articles From the Russian Periodical Sotsialisticheskiy Trud.

| No 7, 1963, pp 71-78. Special zation Is an Important Condition of the Economy of Public Labor, by N. Razumov, 10 pp. | JPRS 21614 |
|---|------------|
| No 8, 1963. Growth of Labor Productivity and Improvement in Contemporary Production Organization, by S. Kheynman, 18 pp, (pp 47-60). | JPRS 21535 |
| Practical Problems in Adopting Scientific Bases for Production Control, by F. Komarov, 14 pp, (pp 61-68). | JPRS 21508 |
| Problems of the Scientific Organization of Labor in Construction, by Yu. Pak, 9 pp, (pp 77-82). | JPRS 21535 |
| Further Strengthening of the Protection of Civil Labor Laws, by F. M. Leviant, 15 pp. RUSSIAN, per, Sovet Gosudarstvo i Pravo, No 8, 1963, pp 53-60. | JPRS 21878 |
| Strict Observance of Rules of Soviet Trade, 5 pp. RUSSIAN, np, Sovet Kirgiziya, 14 Aug 1963. | JPRS 21740 |
| Engineer University-Plants and Their Future, by P. Pletnev, 5 pp. RUSSIAN, per, Sovet Profsoyuzy, No 14, Jul 1963, pp 11-13. | JPRS 21535 |
| Selected Articles From the Russian Newspaper Sovet Rossiya. | |
| 17 Aug 1963, p 2. Angarsk Machine Builders, As Well As Sovnarkhoz, Criticized for Lack of Style in Management, by V. Khublarov, N. Chernavin, 5 pp. | JPRS 21417 |
| 20 Aug 1963, p 2. Bureaucratic Inertness in Sovnarkhoz Assailed, by V. Khublarov, N. Chernavin, 5 pp. | JPRS 21743 |
| 11 Sep 1963, p 2. Expansion of Production of Caprolactam in Kemerovo Needed, by B. Yevladov, Yu. Shpakov, 5 pp. | JPRS 21822 |
| 5 Oct 1963, p 1. Clear-Cut Specialization for Chemical Machine Building Establishments, by V. Fedorov, 5 pp. | JPRS 21814 |

Economic (Contd) Trade and the Sphere of Services, by A. Baulin, JPRS 21740 RUSSIAN, per. Sovet Torgovlya, No 8, 1963. Correct Organization of Fruit and Vegetable Delivery Records, by M. Smorodin, 5 pp. RUSSIAN, per, Sovet Torgovlya, No 8, 1963, JPRS 21740 pp 24-26. Automation of Production Processes at Alcohol Plants, by V. A. Sokolov, 5 pp. RUSSIAN, per, Spirtovaya Prom, No 6, 1963, pp 18-20. JPRS 21822 Improvement in the Production of DI-1 Steel, by N. T. Privalov, M. A. Yartsev, et al, 11 pp. JPRS 21306 RUSSIAN, per, Stal', No 5, 1963, pp 426-429. Conversion of Glass Plants To the Use of Natural Gas Should Be Expedited, by I. I. Ben', 7 pp. RUSSIAN, per, Steklo i Keramika, No 7, 1963, pp 39-42. JPRS 21468 Selected Articles From the Russian Newspaper Stroitel Gazeta. No 81, 10 Jul 1963, p 2. JPRS 21468 How Lightweight Silica Concrete is Produced, by I. Chernyy, 5 pp. JPRS 21468 No 82, 12 Jul 1963, p 2. Longer Service Life of Wooden Structural Elements Needed, by A. Folomin, S. Shteynberg, 5 pp. JPRS 21535 No 89, 28 Jul 1963, p 2. Improved Labor Standards, by V. Yermolayev, 5 pp. JPRS 21468 No 94, 9 Aug 1963, p 3. Current Status of the Glass Industry, by Ye. Kotlyarov, 5 pp. JPRS 21535 No 97, 16 Aug 1963, p 3. Let's Encourage the New System of Labor Payment, by A. Kuznetsov, P. Podkurov, 6 pp. JPRS 21914 No 98, 18 Aug 1963, pp 2, 3. Mechanization of Labor in Construction, by I. Ganichev, 8 pp.

JPRS 21468

Urgent Developmental Tasks of the Lime Industry, 7 pp. RUSSIAN, per, Stroitel Materially, No 6, 1963, pp 6, 7.

| 200.00.20 (000) | | |
|--|-------|-------|
| The Building Materials Industry Must Meet the Growing Requirements of the National Economy, by I. A. Grishmanov, 15 pp. RUSSIAN, per, Stroitel Materially, No 8, 1963, pp 1-5. | JPRS | 21914 |
| The Present and Future of the Large Scale Chemical Industry, by V. S. Fedorov, 6 pp. RUSSIAN, np, Trud, 5 Sep 1963, p 3. | | 21646 |
| General, Communal and Municipal Services, by Al. Antonov, 5 pp. RUSSIAN, np, Trud, 14 Sep 1963. | .JPRS | 21740 |
| Some Sources for Increasing Cement Production, by G. M. Batekhin, 5 pp. RUSSIAN, per, Tsement, No 3, May 1963, pp 5, 6. | JPRS | 21468 |
| Automation of Cement Plants in the USSR, 8 pp. RUSSIAN, per, Tsement, No 4, Jul, Aug 1963, pp 1, 2. | JPRS | 21914 |
| Economic Effects of Foreign Trade, by G. L. Shagalov, 20 pp. RUSSIAN, per, Vest Mosk Univ, No 5, Sep, Oct 1963, pp 3-17. | JPRS | 21787 |
| Problems of the Economic Development of West and East in the Soviet Union, by V. P. Novikov, Yu. G. Saushkin, 15 pp. RUSSIAN, per, Vest Mosk Univ Ser 5, Geograf, No 4, 1963, pp 3-13. | JPRS | 21508 |
| Selected Articles From the Russian Periodical Vest Statistiki. | | |
| No 7, 1963. Growth in Communal Livestock Raising, by A. Lutsenko, 18 pp, (pp 17-27). | JPRS | 21803 |
| Changes in the Food Products Sale Structure, by I. Belyayevskiy, 12 pp, (pp 28-35). | .JPRS | 21804 |
| No δ , 1963. The Use of Computers in Economics, by V. Isakov, 13 pp, (pp 17-26). | JPRS | 21508 |
| Organizing Accounting and Statistics in the Production Associations of the L'vovskiy Sovnarkhoz, by L. Klepikova, S pp, (pp 37-40). | JPRS | 21773 |
| Population and Labor Force Statistics, 6 pp, (pp 91, 92, 94-96). | JPRS | 21878 |

Selected Articles From the Russian Periodical Vest Vses Nauch-Issledov Inst Zheleznodorozhnogo Transporta, No 2, 1963.

ACSI I-3385 ID 2246294

- A. Basic Results of Road Tests Made With VL10 Mainline DC Electric Locomotive, by E. G. Bobe, G. V. Grandova, 8 pp. (pp 3-9).
- B. Selecting the Rated Parameters for the Traction Turbines of Gas Turbine Locomotives, by E. T. Bartosh, 7 pp, (pp 9-13).
- C. Results of Traction and Thermal Tests of the TGMSA Diesel Locomotive, by N. N. Kornev, A. S. Yeremeyev, 7 pp, (pp 16-19).
- D. Gas Turbine Locomotives With Mechanical and Hydro-Mechanical Transmissions, by V. P. Demidov, Ye. A. Sen-Zhelen, 5 pp, (pp 63, 64).

Soviet Exports of Industrial Equipment, by B. Gordeyev, 6 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No 8, 1963, pp 13-16.

.tPRS 21541

Electric Power in the Soviet Bloc, by A. Popov, 8 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No 9, 1963, pp 3-6.

JPRS 21787

Selected Articles From the Russian Periodical Voprosy Ekon.

No 7, 1963. Price and Questions of Effectiveness of New Agricultural Machinery, by M. Gabrieli, 15 pp, (pp 59-69).

JPRS 21581

Summary of Discussions Held at the March 1963 Session of the Scientific Council for Problems of Price-Formation, by V. Chernyshev, 26 pp, (pp 146-156).

JPRS 21524

No 8, 1963. Establishing Optimal Proportions and Balances in the National Economic Plan, by A. Kurskiy, 17 pp, (pp 53-63).

JPRS 21524

Selected Articles From the Russian Periodical Voprosy Ekon. (Contd)

No 8, 1963. Important Problems of the Mechanization of Agriculture, by L. Korbut, 9 pp, (pp 89-95).

JPRS 21499

No 9, 1963, pp 16-28. Economic Cooperation Among CEMA Countries, by B. Miroshnichenko, 9 pp. JPRS 21787

Multi-Chamber Carburetors, by A. Brilov, 7 pp. RUSSIAN, per, Za Rulem, No 7, 1963, pp 16, 17.

JPRS 21907

Selected Articles From the Russian Periodical Zheleznodorozhnyy Transport, No 8, 1963.

JPRS 21797

Soviet Railroaders Urged to Improve Passenger Service, 9 pp, (pp 3-7).

Rise in Soviet Economy Requires Marked Improvement in Planning at All Levels, by F. P. Mulyukin, 13 pp, (pp 8-14).

Important Problems in Improving Freight and Commercial Transportation, by A. V. Basov, 12 pp, (pp 15-20).

Possibilities for Further Reducing the Cost of Passenger Hauls, by A. P. Abramov, 11 pp, (pp 21-25).

Technical Progress in the National Economy is Promoting the Efficiency of Soviet Railroads, by L. Z. Kats, 10 pp, (pp 26-30).

Higher Educational Institutions Enlisted in Fight for Technical Progress on Soviet Railroads, by I. I. Ivanov, 11 pp, (pp 31-35).

Republic Conference of Trade Union of Medical Workers, by G. Klebanov, M. Piletskiy, 6 pp.
BELORUSSIAN, per, Zdravookhraneniye Belorussii, No 8, 1963, pp 89-91.

JPRS 21840

Diesel Traction on USSR Railroads, by N. A. Fufransky. GERMAN, per, Z Organisation fuer die Zusammenarbeit der Eisenbahnen, No 5, 1962, pp 4-6.

*ACSI I-3638-A ID 2251711

New Railroad Technology in the USSR, by A. I. Seredin. GERMAN, per, Z Organisation fuer die Zusammenarbeit der Eisenbahnen, No 5, 1962, pp 12-17.

*ACSI I-3638-B ID 2251711

Chronicle of Communist Construction, by F. P. Shevchenko, 367 pp. UKRAINIAN, bk, Kitopys Komunistychnogo Budivnytstvakhronika Podiy na Ukrayini 1959-1961, Kiev, 1962, pp 11-417.

JPRS 21890

Political

To the Plenum of the Central Committee CPSU 19-23 November 1962, by K. T. Mazurov, 7 pp. RUSSIAN, bk, Plenum Tsentral nogo Komiteta Kommunisticheskoy Partii Sovet Soyuza, 19-23 Nov 1962, 1963, pp 156-164.

JPRS 21866

Selected Articles From the Russian Periodical Kommunist.

No 12, 1963, pp 3-11. The CPSU is Creatively Developing Marxist-Leninist Theory, 14 pp. JPRS 21203

No 13, 1963. Along the Lenin Way, 12 pp, (pp 3-11). JPRS 21536

The Soviet All-National Spate, by A. Butenko, 15 pp, (pp 22-32).

The Leninist Course of the World Communist Movement and Its Adversaries, by T. Timofeyev, 13 pp, (pp 33-42).

Millions Study Marxism-Leninism, 9 pp, (pp 43-49).

The Theory of the Reactionary Position of Strength Policy, by B. Shabad, 9 pp, (pp 117-123).

The Role of the Estonian SSR in the Creation of a Material and Technical Base of Communism, by A. Korsmik, 6 pp.
RUSSIAN, per, Kommunist Estonii, No 8, 1963, pp 20-24.

JPRS 21903

USSR Political (Contd)

| The General Line of Soviet Foreign Policy, | |
|---|------------|
| by V. Vershinin, 12 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 19, Oct 1963, pp 8-16. | JPRS 21876 |
| A Contemporary Soviet View of the Socialist Revolution, by Yu. Krasin, 14 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 20, | |
| Oct 1963, pp 9-18. | JPRS 21886 |
| Soviets Accuse Chinese of Modern Leftist Opportunism, by D. Chesnokov, 15 pp. | |
| RUSSIAN, per, Polit Samoobrazovaniye, No 10, 1963, pp 13-23. | JPRS 21841 |
| Pravda Reviews German Rearmament and United States Policy, by Yu. Frantsev, 6 pp. | |
| RUSSIAN, np, Pravda, 29 Sep 1963, p 6. | JPRS 21601 |
| In the Interests of Universal Peace, 5 pp. RUSSIAN, np, Pravda, 11 Oct 1963, p 1. | JPRS 21461 |
| Party Conferences, 5 pp. RUSSIAN, np, Pravda, 16 Nov 1963, p 1. | JPRS 21946 |
| Soviets Charge the Fourth International and the Communist Party of China With Trotskiyism, by Yu. Borko, 5 pp. | |
| RUSSIAN, np, Sovet Estoniya, 26 Sep 1963, p 3. | JPRS 21457 |
| A Soviet View of the Development of Revolution, by R. Blyum, 8 pp. | |
| RUSSIAN, np, Sovet Estoniya, 27 Sep 1963, pp 2-4. | JPRS 21765 |
| For Greater Internationalism in Outlook of Soviet | |
| Central Asiatic Peoples, 10 pp. RUSSIAN, np, Sovet Kirgiziya, 10 Oct 1963, pp 1, 2. | JPRS 21876 |
| When the Chatterers are Silent, by P. Gedraytis, | |
| 5 pp. RUSSIAN, np, <u>Sovet Litva</u> , 13 Sep 1963. | JPRS 21592 |
| The Communist Party of the Soviet Union the Party | |
| of Creative Marxism, by N. Lomakin, 6 pp. RUSSIAN, np, Sovet Litva, 12 Oct 1963, p 5. | JPRS 21876 |
| Science Facilitates the Building of Communism, by | |
| M. V. Keldysh, 7 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 7, 1963, np 5-9. | JPPS 21477 |

USSE

dillon.

Political (Contd)

Comparison of Capitalism and Socialism, by M. Maksimov, 5 pp. JPRS 21878

BELORUSSIAN, np, Sovet Belorussiya, 7 Sep 1963, p 2. Central Committee Resolution on the International

Communist Movement, 6 October, 24 pp. FRENCH, np, L'Humanite, 9 Oct 1963, p 5.

No Question of Coexistence of Ideologies, 6 pp. GERMAN, np, Zeitung Vum Letzeburger Vollek, 16 Sep 1963, p 2.

Military

Negotiation of Obstacles, Throwing Grenades, and Hand-to-Hand Combat, by N. I. Kharlamov, B. N. Shtandel', 89 pp. RUSSIAN, rpt, Preodoleniye Prepyatstviy, Metaniye

Granat i Rukopashnyy Boy, 1958, pp 3-125, Encl to RV-1321-58.

Soviet Military Doctrine, by Nikolay Andreyevich Lomov, RUSSIAN, bk, Sovet Voyennaya Doktrina, Moscow, 1963,

pp 1-31.

Selected Articles From the Russian Periodical Kommunist Vooruzhennykh Sil.

No 14, 1963, pp 85-88. Party-State Control Cooperation Groups and Committees, 6 pp.

No 15, 1963, pp 42-50. Demands of the 22nd Party Congress and CPSU Program on Military Cadres, by A. Iovlev, 13 pp.

No 16, 1963. Party-State Inspection in Action, by N. Petukhov, 8 pp, (pp 32-37).

The Laws of Armed Combat and Commander Ingenuity, by M. Yasyukov, 12 pp. (pp 50-57).

Selected Articles from the Russian Newspaper Krasnaya Zvezda.

25 Nov 1962, 9688759 The Missile Carriers Are Leaving For the Ocean, by H. Kot'ish, 5 pp.

7 Sep 1963, p 2. Modern Weapons and Tactics, by N. Ogarkov, 5 pp. Navy Tr 3412

JPRS 21765

JPRS 21592

ACSI 1-2858 ID 2099761

JPRS 21678

JPRS 21565

ONI 946

JPRS 21904

USSR Military (Contd)

| Selected | Articles | From | the | Russian | Newspaper |
|----------|----------|-------|-----|---------|-----------|
| Krasnaya | Zvezda. | (Cont | I) | | • |

| 24 Sep'1963, p 1. Nuclear Weapons Are Not To Be Trifled With, by I. Zheltikov, 5 pp. | JPRS 21720 |
|---|---|
| 27 Sep 1963, p 3. Troop Medical Care, by D. Kuvshinskiy, 5 pp. | JPRS 21904 |
| 28 Sep 1963, p 2. Missile Crew Field Training, by V. I. Kazakov, 5 pp. | JPRS 21904 |
| The Effective Use of the Possibilities of Military Cybernetics, by I. Ya. Diner, 11 pp. RUSSIAN, per, Morskoy Sbornik, No 7, 1963, pp 34-41. | JPRS 21904 |
| The Fleet is Growing - What About the Bunker Base?, by V. Lushchevskiy. RUSSIAN, np, Vodnyy Transport, No 65 (4575), 30 May 1963. | *ACSI I-3632 ID 2251706 525th MI Gp |
| Modern Parachute Technique Used by Airborne Troops - Tanks Drop From the Sky, by U. Berger. GERMAN, per, Sport und Technik, No 8, 1963. | *ACSI I-3667 ID 2251724 |
| Out of the Air Into Battle. POLISH, per, Skrzydlata Polska, No 8, (607), 24 Feb 1963, pp 6, 7. | *ACSI I-3618 ID 2250323 525th MI Gp |
| Tank Air-Drop, by Janusz Adrian. POLISH, np, Zolnierz Polski, No 27 (788), 7 Jul 1963, p 13. | *ACSI I-3642 ID 2251715 519th MI Bn |
| Geographic | |
| Acclimatization of Man to the North and South, by I. A. Arnol'di, 59 pp. RUSSIAN, bk, Akklimatizatsiya Cheloveka na Severe i Yuge, Moscow, 1962, pp 1-71. | JPRS 21481 |
| The Northernmost Point, by V. P. Dunayev. RUSSIAN, bk, Samyy Severnyy, 1960, pp 3-72. | *ACSI I-3584 ID 2250304 |
| The Formation of Town Networks in the Areas of the USSR, by O. A. Konstantinov. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 4, 1963, pp 23-34. | *ACSI I-3613 ID 2250320 |
| Along the Rivers of the Central Sikhote-Alin', by N. G. Vasil'yev, 5 pp. RUSSIAN, per, Privoda, No 12, 1962, pp 59-64. | ACSI I-3136 ID 2240847 |
| Photogrammetry in the USSR, by N. C. Oprescu, I. Negoita. RUMANIAN, rpt, Buletin Topografic, 1959, pp 5-8, 18-21. | *ACSI I-3678 ID 2251726 |

Sociological

City Building and District Planning -- Present Conditions and Long-Term Development, by M. O. Khauke, V. A. Shkvarikov.
RUSSIAN, rpt, Gradostroitel'stvo i Rayonnaya
Planirovka -- Sostoyaniye i Perspektivy Razvitiya,
1962, pp 28-40, 47-55, 73, 74, 77-80, 103-110,
123-134, 138-143.

*ACSI I-3663 ID 2251722

Selected Articles From the Russian Periodical Kommunist.

No 13, 1963. The Rural Theme in Writers' Stories, by V. Stenakov, 12 pm, (pm 50-58).

The Novel and the Spiritual Values of Our Time, by B. Ryurikov, 12 pm, (pp 59-67).

No 14, 1963. Creative Method of Socialist, Communist Art, by A. Yegorov, 22 pp, (pp 79-93). JPRS 21824

JPRS 21536

Films and Life: Notes of a Movie Critic, by N. Tolchenova, 11 pm, (pp 94-101).

The Collective Struggles Against Vestiges of the Past, by E. Lisavtsev, 13 pp, (pp 102-109).

Scientific-Technical Progress in the USSR and Multilateral Development of the Personality of the Worker, by L. N. Kogan, A. M. Gor'kiy, 13 pp. RUSSIAN, per, Nauch Dok Vysshey Shkoly - Filosof Nauk, No 4, Jul, Aug 1963, pp 28-36.

JPRS 21554

Terkin Versus Terkin: A Critique of A. Tvardovskiy's New Poem, by D. Starikov, 31 pp. RUSSIAN, per, Oktyabr', No 10, 1963, pp 193-207.

JPRS 21835

Moscow Daily Contrasts Authority and Personality Cult, by N. Saushkin, 5 pp. RUSSIAN, np, Sovet Rossiya, 29 Aug 1963, p 3.

JPRS 21510

A Review of Vol V of a History of the Great Patriotic War of the Soviet Union, 1941-1945, by S. Kozlov, V. Morozov, 6 pp. RUSSIAN, np, Pravda, 19 Sep 1963, p 4.

JPRS 21523

Soviet Trade Union Organ Accuses Chinese of Splitting African Independence Struggle Into Whites Versus Coloreds, by Ov. Melikyan, L. Khanga, 6 pp. RUSSIAN, np, Trud, 24 Sep 1963, p 3.

JPRS 21601

USSR Sociological (Contd)

| Interview on Soviet Education, by Vyacheslav Yelyutin, 5 pp. | | |
|---|-------|-------|
| BELORUSSIAN, np, Sovet Belorussiya, 28 Aug 1963, p 1. | JPRS | 21878 |
| Background and Marginal Notes to the Second Vatican Ecumenical Council, by Ivan Hryn'okh, 27 pp. | | |
| UKRAINIAN, per, Suchastnist, No 1, 1963, pp 71-96. | .TPRS | 20974 |
| Critical Analysis of the Second Vatican Ecumenical | | |
| Council's Activities, by Ivan Hryn'okh, 42 pp. UKRAINIAN, per, Suchastnist', No 5, 1963, pp 71-109. | JPRS | 20974 |
| Biographic | | |

| Angara, Daughter of Baykal, by B. A. Tomytkin, 88 pp. | |
|---|-------------|
| RUSSIAN, rpt, Doch' Baikala - Angara (Doch' Baykala - | ACSI I-1411 |
| Angara), 1961, pp 3-114, T/C; Encl No 1 to RV-237-62. | ID 2193849 |
| List of Candidates for Membership in the Academy of | |
| Medical Sciences USSR, 10 pp. | |
| RUSSIAN, np, Medit Gazeta, 4 Oct 1963, p 4, | JPRS 21675 |

EASTERN EUROPE

Economic

| The Development of Productive Forces a Decisive Factor for Increasing Prosperity in the Villages, 11 pp. ALBANIAN, per, Rruga e Partise, Vol X, No 7, 1963, pp 3-13. | JPRS 21230 |
|--|------------|
| Prospects for Fuel and Power Development of the Maritsa-Iztok Basin, by G. Bluskov, et al, 14 pp. BULGARIAN, per, Elektroenergiya, No 7, 1963, pp 1-6. | JPRS 21431 |
| Some Characteristic Features of the New Stage of Development in the World Socialist System, by Ivan Oleynik, 18 pp. BULGARIAN, per, Ikonomicheska Misul, Vol VIII, No 7, 1963, pp 3-16. | JPRS 21850 |
| Concorning Certain Price Correlations in Bulgaria, by Nadezhda Dimitrova, 17 pp. BULGARIAN, per, <u>Ikonomicheska Misul</u> , Vol VIII, No 7, 1963, pp 32-44. | JPRS 21741 |
| Supplies of Stocks - A Means for Creating an Accord Supply and Demand, by Kosta Nikolov, 15 pp. BULGARIAN, per, Ikonomicheska Misul, Vol VIII, No 7, 1963, pp 45-56. | JPRS 21741 |
| The Chemical Industry Up to 1980, by Georgi Kanturski, 9 pp. BULGARIAN, per, Izvestiya na Visshiya Institut za Narodno Stopanstvo Dimitur Blagoev Varna, No 1, 1963, pp 29-36. | JPRS 21769 |
| Certain Basic Economic Requirements in Agricultural Specialization, by Todor Kunchev, 38 pp. BULGARIAN, per, Izvestiya na Visshiya Institut za Narodno Stopanstvo Dimitur Blagoev, No 2, 1963, pp 33-52. | JPRS 21812 |
| Floating Workshops With Reinforced Concrete Hulls, by Khristo Tabakov, Svetoslav Mikhov, 9 pp. BULGARIAN, per, Korabostroene, No 7, 1963, pp 1-5. | JPRS 21852 |
| Possibilities and Prospects for Development of Reinforced Concrete Shipbuilding, 5 pp. BULGARIAN, per, Korabostroene, No 7, 1963, pp 22-24. | JPRS 21852 |
| On the Means of Allocation of Funds for Improving the Standard of Living, by Khristo Krinchev, 10 pp. | |
| BULGARIAN, per, Novo Vreme, Vol XXXIV, No 7, 1963, pp 43-51. | JPRS 21289 |

| Problems in Perfecting Industrial Enterprise Management, by Khristo Kaligorov, 15 pp. BULGARIAN, per, Trud i Tseni, No 6, 1963, pp 1-16. | JPRS 21666 |
|--|----------------------------|
| Economic Development of Foreign Trade of Yugoslavia, by Sava Obradovic, 10 pp. CROATIAN, per, Ekonomist, No 2, Apr-Jun 1963, pp 449-456. | JPRS 21560 |
| Centralized, Decentralized, or Polycentric Planning, by Rudolf Bicanic, 18 pp. CROATIAN, per, Ekonomist, No 2, Apr-Jun 1963, pp 456-469. | JPRS 21564 |
| Achievements and Prospects of Economic Cooperation Between the CEMA Countries, by Djordje Pribicevic, 22 pp. CROATIAN, per, Ekonomski Pregled, No 6, 7, Jun, Jul 1963, pp 574-590. | JPRS 21561 |
| Subsidies as Measures for Financing Budgetary Expenditures, by B. Lazarevic, 16 pp. CROATIAN, per, Finansije, No 5, 6, 1963, pp 217-230. | JPRS 21454 |
| The Fulfillment of the 1962 Federal Budget, by A. Jovanovic, 16 pp. CROATIAN, per, Finansije, No 5, 6, 1963, pp 287-302. | JPRS 21454 |
| Investments in the Postwar Period, 34 pp. CROATIAN, per, <u>Jugoslovenski Pregled</u> , No 7, 8, 1963, pp 295-306. | JPRS 21741 |
| Selected Articles From the Croatian Periodical Medunarodni Transport. | |
| No 2, 1963, pp 124, 125. Commercial Licences for a Wide Variety of Goods, by Z. Radoicic. | *ACSI I-3697 ID 2251737 |
| No 3, 1963, pp 186, 187. Increased Transportation of Passengers and Goods Forecast for 1963, by Z. Radojcic. | *ACSI I-3698 ID 2251738 |

Selected Articles From the Croatian Periodical Medunarodni Transport. (Contd)

| No 4, 1963. A. Modernization and Expansion of Capacity by Means of Common Funds, by B. Supica, (pp 244-246). | *ACSI I-3700 ID 2251740 |
|--|----------------------------|
| B. How to Increase International Train Traffic, by Petar Milosavljevic, (pp 246, 247). | |
| No 7, 1963. A. Transportation-Logal Regulations in International Railway Transportation, by Kostic Vitomir, (pp 473-475). | *ACSI I-3699 ID 2251739 |
| B. Limited Responsibility of a Railroad for Compensation of Damages Stipulated in a Contract for Transporting Goods, by Kostic Vitomir, (pp 475, 476). | |
| Uniform Indicators of Business Success as a Method for Social Direction of Income Distribution in Economic Organizations, by Teodor Tomic, 8 pp. CROATIAN, per, Nova Administracija, No 6, 7, Jun, Jul 1963, pp 439-444. | JPRS 21564 |
| Uniform Indicators for the Economic Results of Workers Organizations, by Borivoj Romic, 13 pp. CROATIAN, per, Socijalna Politika, No 7, 8, 1963, pp. 723-735. | JPRS 21666 |
| Dynamics of Fluctuation of Personal Incomes in Transportation, by Vojin Kostic, 9 pp. CROATIAN, per, Socijalna Politika, No 7, 8, 1963, pp. 779-783. | JPRS 21671 |
| Specialization in Strakonice, by Jaroslav Prosser, Jiri Vrba, 5 pp. CZECH, per, <u>Ekonomika Zemedelstvi</u> , Vol II, No 9, 1963, pp 259-260. | JPRS 21491 |
| Advantages of the 1964 Concentration in Crop Farming, by J. Kunc, 6 pp. CZECH, per, Ekonomika Zemedelstvi, Vol II, No 9, 1963, pp 262, 263. | JPRS 21491 |
| International Trade and Peaceful Cooperation Through Technical Developments, by Karel Michalica. CZECH, per, Ceskoslovenske Spoje, Vol VIII, No 4, 1963, pp 24-29. | *ACSI I-3604 ID 2250311 |

1963, pp 33-48.

Management of State Farms in the First Half of 1963, CZECII, per, Statni Statky, Vol VI, No 9, 1963, JPRS 21690 pp 130-133. Use of Technology in Food Production, by Bohumil Snopek, 8 pp. CZECH, per, Statni Statky, Vol VI, No 10, 1963, JPRS 21883 pp 156-157. Organization of a Network of Centers of Scientific and Technical Development in Construction, 27 pp. CZECH, per, Vestnik Ministerstva Vystavby, Vol III, No 19, 1963, pp 243-248. JPRS 21769 Simplified Tariff Regulations on Small Parcels Sent Between Czechoslovakia, Bulgaria, the German Democratic Republic, and USSR, 9 pp. CZECH, per, Vestnik Ustredni Spravy Spoju, No 35, 1963, pp 249-251. JPRS 21811 Development of Foreign Trade of the CEMA Countries in 1962, by G. Hubert, P. Sydow, 12 pp. GERMAN, per, Der Aussenhandel und Innerdeutscher, JPRS 21561 No 7, 1963, pp 30-33; No 9, 1963, pp 3-6. The New Economic System of Planning and Management in Industrial Construction, by G. Peters, 8 pp. GERMAN, per, Bauplanung-Bautechnik, Vol XVII, No 7, 1963, pp 347-363. JPRS 21697 Bridges on the German Federal Through Highways, by Karl-Heinz Miller, 8 pp. JERMAN, per, Brucke und Strasse, Vol XV, No 7, 1963, pp 305-308. (Call No TES B88 V 15 No 7 Army Map Service Eng Tr) Some Priority Tasks in the Telephone and Teletype System, by Egon Zirzow, 33 pp. GERMAN, per, Die Deutsche Post, No 7, 1963, pp 195-198, 200, 201. JPRS 21453 Some Problems of Revaluation of Basic Assets and of New Determination of Depreciation Rates, by Claus Boltz, 10 pp. GERMAN, per, Einheit. No 8, 6 Aug 1963, pp 38-47. JPRS 21454 The Foundation of Drying Technique, by H. J. Rauber, 11 pp. ACSI I-3320 GERMAN, per, Die Lebensmittel-Industrie, No 2,

ID 2246280

| The Iron and Steel Industry of Rumania, by K. Mylius, 6 pp. GERMAN, per, Neue Huette, Vol VIII, No 8, 1963, pp 504-506. | JPRS | 21654 |
|--|------|-------|
| East German State Council Decree on 1964 German Democratic Republic Economic Plan, 29 pp. GERMAN, np, Neues Deutschland, 5 Oct 1963. | JPRS | 21528 |
| Establishment of Joint East German-Polish Railroad Stations, by Heinz Kuehne, 15 pp. GERMAN, per, Der Operative Bienst, No 7, 1963, pp 220-222. | JPRS | 21453 |
| Three Years of the Rostock Seaport, by H. G. Schoenrock, W. Wirdel, 12 pp. GERMAN, per, Seeverkehr, No 7, 1963, pp 35-39. | JPRS | 21474 |
| The New Planning System in Agriculture, by Erwin Schulz, 10 pp. GERMAN, per, Vertragssystem, No 7, 1963, pp 203-206. | JPRS | 21791 |
| The Scientific-Technical Direction of the Reischsbahn Locomotive Management, by G. Rose, 12 pp. GERMAN, per, Die Werkstatt, Vol VII, No 7, 1963, pp 219-223. | JPRS | 21474 |
| Report on the Activities of the OSSIID Commissions, 33 pp. GERMAN, per, Z der Organization fuer die Zusammenarbeit der Eisenbahnen, Vol VI, No 3, May-Jun 1963, pp 22-32. | JPRS | 21474 |
| The New Organizational Structure and Management Method of the Ministry of Light Industry, by Laszlo Revitz, 16 pp. HUNGARIAN, per, <u>Ipargazdasag</u> , Vol XV, No 6, 1963, pp 1-7. | JPRS | 21505 |
| Directive on Fixing the Consumer Prices on New Industrial Products, by Orszagos Archivatal, 5 pp. HUNGARIAN, np, Kcreskedelmi Ertesito, Vol LVI, No 26, 12 Aug 1963, pp 295-297. | JPRS | 21505 |
| Resolution of the Collegium of the Ministry of Light Industry on the Evaluation of the Industrial Reorganization, 7 pp. HUNGARIAN, per, Konnyuipari Ertesito, Vol XVI, | | |
| No 34, 24 Aug 1963, pp 343-345. | JPRS | 21882 |

The Operational Regulations of the Ministry of Light Industry and the Organizational Structure of the Ministry, 61 pp. HUNGARIAN, per, Konnyuipari Ertesito, No 23, 24, 1 Jul 1963, pp 207-230. JPRS 21945 Selected Articles From the Hungarian Periodical Kozgazdasagi Szemle, Vol X, No 9, 1963. The Fulfillment and Experiences of the Economy's Investments During the Second Five-Year Plan, by Erno Kazai, 17 pp, (pp 1001-1013). JPRS 21705 The Conditions of Proportionate Socialist Reproduction and the International Division of Labor, by Fereno Kozma, 20 pp, (pp 1014-1029). JPRS 21706 The Effect of Income on Crop Production in Hungarian TSZS, by Ferenc Vagi, 6 pp, JPRS 21956 (pp 1044-1057). Theses on the Need For Reformation of Price System and Economic Mechanism, by Tibor Liska, JPRS 21705 26 pp, (pp 1058-1076). Theses on the Need For Price Reform Attacked by the President of the National Price Office, JPRS 21705 by Bela Csikos-Nagy, 11 pp, (pp 1077-1084). The Coordinating Office For Ship Chartering and Its Significance in the Cooperation of CEMA Countries, by Ervin Csak, 5 pp. HUNGARIAN, per, Kozlekedesi Kozlony, No 31, JPRS 21462 4 Aug 1963, pp 528-530. Norm Control in Light Industry, by Antal Harsanvi, HUNGARIAN, per, Munkaugyi Szemle, No 7, 1963, JPRS 21454 pp 4-8. The Consumption of Aluminum in Hungary, by Laszlo Orosz, 22 pp. HUNGARIAN, per, Statisztikai Szemle, Vol XLI, JPRS 21852 No 8, 9, 1963, pp 788-801. First Group of Passenger River Boats, by ACSI I-3194 Jerzy Stanislawski, 7 pp.

ID 2244401 519th MI Bn

POLISH, per, Budowictwo Okretowe, Vol V, No 7,

1960, pp 196-199.

| Backery Brown & He | and the second of the second o |
|---|--|
| Eastern Europe Economic (Contd) | |
| Present and Future of the Polish Dyestuff Industry, by Henryk Konopacki, 17 pp. POLISH, per, Chemik, No 9, 1963, pp 249-256. | and the second s |
| Data on Electric Power Industry, 9 pp. POLISH, per, Energetyka, No 8, 1963, pp 226-230. | |
| | JPRS 21602 |
| Financial Systems of Industrial Enterprises in CEMA Countries, by Jozef Trendota, 13 pp. POLISH, per, Finanse, No 7, 1963, pp 1-11. | JPRS 21350 |
| Financing the Reproduction of Durable Goods in the Enterprises of Socialist Countries, by Bronislaw Blass, 16 pp. | |
| POLISH, per, Finanse, No 7, 1963, pp 12-24. | JPRS 21350 |
| Has the Czechoslovak System of Material Incentives Proved Successful, by Wladyslaw Jelen, 7 pp. POLISH, per, Finanse, No 7, 1963, pp 47-53. | JPRS 21350 |
| Selected Articles From the Polish Periodical Gospodarka Planowa. | |
| No 7, 1963, pp 8-12. Basic Changes in Procedures and Methods of Drafting the 1964 National Economic Plan, by Michal Wols! 1, 10 pp. | JPRS 21564 |
| No 8, 9, 1963. The Building Materials Industry in the Middle of | |
| the Five-Year Plan, by Jerzy Bolkowski, 26 pp, (pp 5-10). | JPRS 21570 |
| Some Problems Involved in Establishment of Proper Measures of Specialization Level for the Purposes of Planning and Statistics, by Stefan Krajewski, 13 pp, (pp 26-30). | JPRS 21882 |
| Credit as a Means to Affect the Trends of Production and Investment of Peasant Households, by Tadeusz Wyszomirksi, 10 pp, (pp 45-48). | JPRS 21882 |
| Faster Development of Finished Metallurgical Products, by Tadeusz Moskalewski, 6 pp, (pp 54-56). | JPRS 21654 |
| The Process of Balancing the Levels of Agricultural Development in Socialist Countries, by Izydor Adams 45 pp, (pp 63-75). | |

Food Emport and Settlement Prices, by Antoni Flominski, 9 pp. POLISH, per, <u>Handel Zagraniczny</u>, No 9, 1963, pp 379-382.

JPRS 21850

22

A Common Problem of Polish Import, by Jozef Wierzbolowski, 7 pp. POLISH, per, <u>Handel Zagraniczny</u>, No 9, 1963, pp 387-389.

JPRS 21850

Housing Construction in Poland in 1962, 37 pp. POLISH, per, Inwestycje i Budownictwo, Vol XIII, No 7, 8, 1963, pp 6-19.

JPRS 21570

Realization of the Technical Development Plan and Tasks of Forestry and Lumber Industries for 1964, by Tadeusz Molenda, 13 pp.
POLISH, per, Las Polski, No 21, 1-15 Nov 1963, pp 9-11.

JPRS 21956

New Grinding Machines Produced in East Germany, by Lucjan Tadeusz Wrotny, 6 pp. POLISH, per, Mechanik, Vol XXXVI, No 7, 1963, pp 308-311.

JPRS 21663

Future Housing Policy in 1966-1970, by Robert Marowski, 21 pp.
POLISH, per, Miasto, Vol XIV No 7, 1963, pp 11-16.

JPRS 21811

Current Problems With Economic Reserves, by Leopold Gluck, 18 pp. POLISH, per, Nowe Drogi, No 8, 1963, pp 80-93.

JPRS 21454

Selected Articles From the Polish Periodical Nowe Rolnictwo.

No 17, 1963. The Status of Meat Production, by Franciszek Klocek, 12 pp, (pp 10,11). JPRS 21756

Major Investment Trends in Agricultural Education, by Karol Kulawinski, 12 pp, (pp 12-14).

Contracting of Agricultural Crops in 1963-1964, by Julianna Leszczynska, 9 pp, (pp 55-56).

Selected Articles From the Polish Periodical Nowe Rolnictwo. (Contd)

| No 18, 16-30 Sep 1963. Changes in the Number of Farm Livestock in 1962-1963, 10 pp, (pp 9, 10). | JPRS 21883 |
|--|---------------------------|
| Milk Reserve Sought, by Bogdan Szmalc, 9 pp, (pp 11, 12). | |
| Agricultural Equipment Sales, by Jerzy Bengom, 13 pp, (pp 34-36). | |
| The Effects of the 1963 Drought on Plant Vegetation, by Anna Utrata, 12 pp, (pp 38-40). | |
| Problems in the Development of Agriculture in Poland, by Wladyslaw Misiura, 32 pp. POLISH, per, Postepy Nauk Rolniczych, Vol X, No 2, Mar-Apr 1963, pp 3-30. | JPRS 21690 |
| Operations Results of Series EU05 Electric Locomotives in Their First Year by Usage by the PKP, by Andrzej Zielinski, 8 pp. POLISH, per, Przeglad Kolejowy Mechaniczny, No 1, 1963, pp 5-10. | ACSI I-2947 ID 2240817 |
| Present and Future Status of Pump Production, by Jan Faron, 7 pp. POLISH, per, Przeglad Mechaniczny, No 4, 1963, pp 428-434. | JPRS 21663 |
| Status of Fiberboard Industry in 1962, by Antoni Wierzbicki, 8 pp. POLISH, per, Przeglad Papierniczy, Vol XIX, No 6, 1963, pp 201-203. | JPRS 21654 |
| Activities of the Hungarian Scientific-Technical Association of the Textile, by Andrasne Miklowicz, 5 pp. POLISH, per, Przeglad Wlokienniczy, No 7, 8, | ACSI 1-8296 |
| Prospects for the Development of the Chemical Industry, by Stanislaw Miernik, 8 pp. POLISH, per, Przemysl Chemiczny, Vol XLII, No 8, | ID 2224776 |
| 1963, pp 403-405. Need For Reform of the Agronomy Service Organiza- | JPRS 21602 |
| tions, by Marian Brzoska, 24 pp. POLISH, per, <u>Wies Wspolczesna</u> , No 9, 1963, pp 35-45. | JPRS 21883 |

Selected Articles From the Polish Newspaper Zycie Gospodarcze.

| Eastern Europe Economic (Contd) | |
|---|--|
| Selected Articles From the Polish Newspaper Zycie Gospodarcze. | The state of the s |
| No 33, 11 Aug 1963, pp 1, 2. Rates of Pay in Industry, by Bronislaw Fick, 12 pp | JPRS 21454 |
| No 37, 15 Sep 1963. Problems in Automation, by Lucjan Rutkeiwicz, 7 pp, (p 5). | JPRS 21505 |
| Problems in the Development of Our Economy, by Grzegorz Pisarki, 6 pp, (pp 1, 6). | |
| No 38, 22 Sep 1963, pp 1, 8. Experiments With Synthetic Incentives in the Machine Industry, by Henryk Dabrowski, 9 pp. | JPRS 21564 |
| No 39, 29 Sep 1963, pp 1, 5. The New Friendship Pipeline: Results and Prospect of Cooperation Between CEMA Member Nations, by Andrzej Bober, 6 pp. | JPRS 21706 s |
| Current Problems of Apartment Construction, by G. Gusti, 21 pp. RUMANIAN, per, Arhitectura RPR, Vol XI, No 4(83), Jul-Aug 1963, pp 2-5. | JPRS 21958 |
| The Multilateral Development of Rumanian Industry, by Gh. P. Apostol, 6 pp. RUMANIAN, np, Contemporanul, 30 Aug 1963, pp 1, 7. | JPRS 21454 |
| Development of Combined Heat and Power Plants in Socialist Countries, by H. Furtunescu, 13 pp. RUMANIAN, per, Energetica, Vol XI, No 1, Jul 1963, pp 298-301. | JPRS 21431 |
| Contribution of the IRME Enterprise to the Modernization of the Rumanian Power Industry, by Gh. Balan, 25 pp. RUMANIAN, per, Energetica, Vol XI, No 1, Jul 1963, | |
| pp 353-359. Present Tasks of the Financial Organs, by | JPRS 21431 |
| I. Craiu, 12 pp. RUMANIAN, per, Finante si Credit, Vol IX, No 7, 1963, pp 3-14. | JPRS 21853 |
| Planning and Management of Local Budgets, by Stefan Popovici, Constantin Niculescu, 14 pp. RUMANIAN, per, Finante si Credit, Vol IX, No 7, 1963, pp 29-42. | JPRS 21853 |

| Research for the Wood Processing Industry, by N. St. Dumitrescu, 25 pp. RUMANIAN, per, Industria Lemnului, Vol XIV, No 8, 1963, pp 298-302. | JPRS 21793 |
|--|------------|
| The Textile Industry and the Ready-Wear Clothing Industry During the Nineteen Years Since the Liberation, 11 pp. RUMANIAN, per, Industria Textila, Vol XIV, No 8, 1963, pp 337, 338. | JPRS 21793 |
| Achievements of Light Industry During the Nineteen Years Since the Liberation, 11 pp. RUMANIAN, per, Industria Usoara, Vol X, No 8, 1963, pp 321-323. | JPRS 21793 |
| Review of Government Decrees on Improving Livestock and Meat Production, 5 pp. RUMANIAN, np. Informatia Bucurestiului, Vol X, No 3092, 1963, pl. | JPRS 21681 |
| Possibilities for the Reduction of Fuel Consumption on the Rumanian Railroads, by P. Coman, 6 pp. RUMANIAN, per, Lupta Caile Ferate Romine, Vol XIX, No 959, 15 Aug 1963, p 1. | JPRS 21570 |
| Development Problems of Light Industry, by Alexandru Sencovici, 25 pp. RUMANIAN, per, <u>Lupta de Clasa</u> , No 8, 1963, pp 13-22. | JPRS 21453 |
| Rural Electrification in Rumania, by N. Gheorghiu, 13 pp. RUMANIAN, per, <u>Lupta de Clasa</u> , No 9, 1963, pp 13-21. | JPRS 21769 |
| Technical Progress in the Transport of Crude Oil, by S. Tindeche, 7 pp. RUMANIAN, per, Petrol si Gaze, No 8, 1963, pp 398-401. | JPRS 21602 |
| Export of Rumanian Refining Installations and Equipment, by I. Morega, 5 pp. RUMANIAN, per, Petrol si Gaze, No 8, 1963, pp 412-415. | JPRS 21462 |
| Modernization of Equipment in the Machine-Building Industry, by A. Ghilezan, 14 pp. RUMANIAN, per, Probleme Economice, Vol XVI, No 8, 1963, pp 39-49. | JPRS 21431 |

| Foreign Economic Relations of Rumania, by Mauriciu Novac, 14 pp. RUMANIAN, per, Probleme Economice, Vol XVI, No 9, 1963, pp 3-17. | JPRS 21850 |
|--|------------|
| Modernization and Concentration of the Wood Processing Industry, by Mihai Suder, 29 pp. RUMANIAN, per, Probleme Economice, Vol XVI, No 9, 1963, pp 18-30. | JPRS 21697 |
| Electric Power A Factor of Progress for the Railroads, 6 pp. RUMANIAN, per, Revista Cailor Ferate, No 8, 1963, pp 425, 426, 466. | JPRS 21697 |
| Present Status and Prospects for Development, 5 pp. RUMANIAN, per, Revista de Chimie, No 8, 1963, pp 461, 462. | JPRS 21769 |
| Development of CEMA Cooperation in Agriculture, by N. Dirpatov, 5 pp. RUMANIAN, per, Revista Internationala Pentru Agricultura, Vol VII, No 4, Jul-Aug 1963, pp 10-14. | JPRS 21462 |
| Scientific and Technical Cooperation of CEMA Countries in Agriculture, by J. Rosa, 5 pp. RUMANIAN, per, Revista Internationala Pentru Agri- cultura, Vol VII, No 4, Jul-Aug 1963, pp 84-86. | JPRS 21462 |
| CEMA's Achievements in the Veterinary Field, by V. Boiko, 8 pp. RUMANIAN, per, Revista Internationala Pentru Agricultura, Vol VII, No 4, Jul-Aug 1963, pp 96-100. | JPRS 21462 |
| Introduction of New Technology Into Forest Work During The People's Regime, by Gh. Lazar, 11 pp. RUMANIAN, per, Revista Padurilor, Vol LXXVIII, No 8, 1963, pp 429, 430. | JPRS 21616 |
| Aspects of the Development of Rumanian Forests as Reflected by Statistical Data, by P. Alexandrescu, 29 pp. RUMANIAN, per, Revista de Statistica, Vol XII, No 7, 1963, pp 45-57. | JPRS 21491 |
| Ferrous Metal Production in the Soviet Bloc, by S. Plaksin, 6 pp. RUSSIAN, np, Ekon Gazeta, No 35, 31 Aug 1963, p 38. | JPRS 21541 |

| regulariza (gottes) | |
|---|---------------------------|
| The Electrical Products Industry 1957-1962, 18 pp. SERBIAN, per, Jugoslovenski Pregled, No 7, 8, 1963, pp 307-312. | JPRS 21663 |
| The Production of Synthetic Materials in Eastern Europe, by Benjamin Levi, 13 pp. SERBIAN, per, Tehnika, Vol XVII, No 9, 1963, pp 145-149. | JPRS 21654 |
| The 1962 Activity of the Agricultural Cooperatives and Future Tasks, 12 pp. SERBOCROATIAN, per, Glasnik Poljoprivrednih i Zadruznih Organizacija, Vol III, No 7, 8, 1963, pp 7-11. | JPRS 21491 |
| New Conditions Relating to Credit for Buying Agricultural Equipment, 6 pp. SERBOCROATIAN, per, Glasnik Poljoprivrednih i Zadruznih Organizacija, Vol III, No 7, 8, 1963, pp 14-16. | JPRS 21491 |
| Politica1 | |
| Albanians Accuse Khrushchev of Treason for Signing Test Ban Treaty, 13 pp. ALBANIAN, per, Rruga e Partise, Vol X, No 9, 1963, pp 3-14. | JPRS 21841 |
| Albanians Blast Khrushchev Visit to Yugoslavia and Yugoslav Road to Socialism, 14 pp. ALBANIAN, np, Zeri i Popullit, No 219, 13 Sep 1963, pp 3, 4. | JPRS 21637 |
| Decision of the Institute of Philosophy of the Bulgarian Academy of Sciences Governing Constructive Scientific Criticism, 10 pp. BULGARIAN, per, Filosofska Misul, No 3, 1963, pp 5-13. | JPRS 21664 |
| Is Yugoslavia a Socialist Country?, 29 pp. CHINESE, per, Hung-ch'i, No 19, 1 Oct 1963, pp 5-26. | JPRS 21580 |
| The Self-Contained Commercial State, by Johann Gottlieb Fichte. 52 pp. GERMAN, rpt, Der Geschlossne Handelsstaat. | ACSI 1-3252 ID 2244423 |
| | |

Eastern Europe Political (Contd)

| East German Communist Organ Refutes Chinese Ideological Position, by Fritz Kumpf, 12 pp. GERMAN, per, Einheit, No 9, 1963, pp 86-91. | JPRS 21841 |
|--|---|
| Franz Marek Outlines the Development of the Dispute, by Franz Marek, 21 pp. GFRMAN, per, Weg und Ziel, No 9, 1963, pp 553-564. | JPRS 21637 |
| Wolfgang Leonhard Sees New Independence for Individual Communist Parties, by Wolfgang Leonhard, 10 pp. WEST GERMAN, np, Die Zeit, No 40, 4 Oct 1963, p 6. | JPRS 21637 |
| Military | |
| Improvised Anti-Personnel and Anti-Tank Mines, by | |
| Silvestar Bobrovic. CROATIAN, per, <u>Vojno Tehnicki Glasnik</u> , No 1, 1963, pp 52-57. | *ACSI I-3643 ID 2251716 |
| Chemical Warfare Agents, 17 pp. CZECH, bk, Vojenska Technicka Prirucka, 1962, pp 210-230, Encl No 1 to 2824004063 OUSARMA, Czechoslovakia, 18 Feb 1963. | ACSI I-3533-A ID 2229379 |
| Incendiary and Smoke Agents, 6 pp. CZECH, bk, Vojenska Technicka Prirucka, 1962, pp 230-237, Encl No 1 to 2824004063 OUSARMA, Czechoslovakia, 18 Feb 1963. | ACSI I-3533-B ID 2229379 |
| Duel With Tanks, by V. Jelinek, 6 pp. CZECH, per, Ceskoslovansky Vojak, No 17, 17 Aug 1963, pp 3, 4. | ACSI I-3540 ID 2250319 |
| Triangular Parachutes. CZECH, per, <u>Kridla Vlasti</u> , No 3, 1962. | *ACSI I-3682 ID 2251730 519th MI Bn |
| Parachutes With Rotating Canopies. CZECH, per, Kridla Vlasti, No 5, 1962. | *ACSI I-3681 ID 2251729 519th MI Bn |
| Partisan Weapons, by Kazimierz Satora, 5 pp. POLISH, np, Zolnierz Polski, No 8, 1963, pp 14, 15. | ACSI I-3309 ID 2244443 525th MI Gp |

Eastern Europe Military (Contd)

An Interview With the Chief of the Anti-Aircraft Defense Forces, Brigadier General Czeslaw Czubryt-Borkowski, by Z. Jastrzebski, 5 pp. POLISH, np, Zolnierz Wolnosci, No 212, 10 Sep 1963, pp 1, 2.

JPRS 21568

East Germans Consider West German Militarism a Threat to Peace, by Ernst Henri, 9 pp. RUSSIAN, per, Kommunist, No 14, Sep 1963, pp 110-123.

JPRS 21841

Geographic

Physical Geography of Bulgaria, by Zh. Gylybev. (DC-10014) RUSSIAN, bk, Fizicheskaya Geografiya Bolgarii, Moscow, 1960, pp 4-363.

*JPRS

Topography, by Frantisek Boguszak, Jaroslav Slitr, 11 pp.
CZECH, rpt, Topografie, Prague, 1962, pp 14, 15,

ACSI I-2708-A-C ID 2235133

Introduction to: Triangulation Survey in Geodesy, by A. Mihail.

RUMANIAN, bk, Ninelement Triangulatic si Geodezic, Vol I, 1953, pp 1-6.

*ACSI I-3665 ID 2251723

Sociological

278-282; 282-287.

The Standard of Living of the Bulgarian People in the 1961-1980 Period, by Rositsa Gocheva, 31 pp.
BULGARIAN, pamphlet, Sofia, 1963.

JPRS 21464

Science and Religion, by Petur Tsvetkov, 17 pp. BULGARIAN, per, Filosofska Misul, No 3, 1963, pp 119-129.

JPRS 21664

For Additional and Higher Achievements in Education, by Gancho Ganev, 5 pp.
BULGARIAN, np, Rabotnichesko Delo, 15 Sep 1963, p 3.

JPRS 21558

Professional Titles and Academic Degrees, 7 pp.
CROATIAN, per, <u>Jugoslovenski Pregled</u>, No 7, 8, 1963, pp 317, 318.

Eastern Europe Sociological (Contd) Organization of People's Technology, 17 pp. CROATIAN, per, Jugoslavenski Pregled, No 7, 8, 1963, pp 321-325. Expenditures of Social Services and Government Administration, by V. Horvat, 28 pp. CROATIAN, per, Finansije, No 5, 6, 1963, pp 238-260. JPRS 21611 Index of Prices, Living Costs, and Real Income in 1956-1963, by M. Popovic, 7 pp. CROATIAN, per, Socijalna Politika, No 7, 8, 1963, pp 773-778. JPRS 21671 Problem of Disclosure of Secrets as Treated in Yugoslav Regulations, by Krsto Pasinovic, Djuka Nevajdic, 18 pp. CROATIAN, per, <u>Uprava</u>, No 3, 4, 1963, pp 74-86. JPRS 21506 Health Insurance of Agricultural Workers, by Eugen Zokalj, 13 pp. CROATIAN, per, Uprava, No 3, 4, 1963, pp 101-110. JPRS 21506 Youth and Agriculture, 6 pp. CZECH, np, Mlada Fronta, 17 Sep 1963. JPRS 21370 The Status of the Physician in East Germany, by Bernd Naumann, 6 pp. WEST GERMAN, np, Frankfurter Allgemeine Zeitung, No 201, 21 Aug 1963, p 3. JPRS 21611 Text of East German Youth Law Draft, 18 pp. GERMAN, np, Neues Deutschland, 28 Sep 1963. JPRS 21514 System and Benefits of Social Security in East Germany, by Karl Hauck, 5 pp. WEST GERMAN, per, SBZ Archiv, No 16, Aug 1963, pp 251, 252. JPRS 21611 Sociological Investigation of the Changes in Rural Working Conditions, by Andras Hegedus, 15 pp.

JPRS 21341

JPRS 21881

HUNGARIAN, per, Kozgazdasagi Szemle, Vol X, No 6,

Weaknesses of Eating Establishments and Proposed

POLISH, np, Zycie Gospodarcze, No 35, 1 Sep 1963,

Solutions, by Grzegorz Pisarski, 9 pp.

1963, pp 678-692.

p 3.

Eastern Europe Sociological (Contd)

Development and Problems of Second-Level Education, by R. Jemunovic, 17 pp. SERBIAN, per, Neva Administracija, No 6, 7, 1963, pp 419-429.

JPRS 21558

The second secon

The second secon

- The second of the second o

Personnel Planning in Economic Organizations, by Dusan Tomasevic, 10 pp. SERBIAN, per, Socijalna i Zdravstvena Politika, No 5, 6, 1963, pp 6-14.

JPRS 21486

Biographic

New Hungarian Doctors and Candidates, 10 pp. HUNGARIAN, per, Magyar Tudomany, Vol LXX, No 8, 1963, pp 560-564.

JPRS 21924

ID 2197027

WESTERN EUROPE

Economic

Parish of Horne. *ACSI I-3639-A DANISH, bk, Trap Danmark, Vol VI, 1960, pp 205, 206. ID 2251712 Buildings and Institutions. DANISH, bk, Trap Danmark, Vol VI, 1960, pp 207, 208. *ACSI I-3639-B ID 2251712 Long Distance Traffic Control on the Savo Railroad Line, 9 pp.
FINNISH, per, Teknillinen Aikakauslehti, No 5, ACSI I-3072-E 1962, pp 177-183, Encl to R-62-62. ID 2197027 Most Recent Development of Telephone Communications of Railroad Line, 5 pp. FINNISH, per, Teknillinen Aikakauslehti, No 5, 1962, pp 183-, Encl to R-62-62. ACSI I-3072-F

Selected Articles From the French Report Paper Presented at the International Works Transport Conference, Paris, May 1963.

| | How Far and in What Ways Can Internal Transport Be Integrated With Materials Handling and the Other Production Departments?, by N. Hamus. | BISI | 3409 |
|-----|--|----------------|-----------------|
| | Operations and Equipment Employed for the Handling of Slag and Other Waste Products, by Dupon, M. Meyer. | BISI | 3407 |
| | How Far and in Which Ways Can Internal Transport Be Integrated With Materials Handling and the Other Production Departments?, by A. F. de Lafon. | BISI | 3412 |
| | The Chief Characteristics of Internal Transportations in the Most Modern Large Integrated Plants and in Those Which Will be Built in 1980, by J. Broche. | BISI | 3404 |
| | Handling and Disposal of Slag and Works Rubbish at the Cockerill-Ougree Iron and Steelworks, by L. Hubin. | BISI | 3411 |
| | Technical and Organizational Aspects of the Despatch of Semi-Finished and Finished Products From a Steelworks, by Willem. | BISI | 3415 |
| | Technical Aspects of Operations and Organization in the Despatch of Finished and Semi-Finished Products From Steelworks, by M. Sey. | BISI | 3403 |
| | Despatch of Rolled Products, by A. E. Nientker. | BISI | 3413 |
| Ens | of Law for Ensuring Traffic, Traffic - urance Law. | | |
| des | MAN, rpt, Entwurf Eines Gesetzes zur Sicherstellung Verkehrs Verkehrassicherstellungsgesetz, Jan 1963, pp 1-29, Rpt No IV/894. | *ACSI ID 22 | I-3662 51720 |
| | | | |

Selected ArticTes From the German Report
Paper Presented at the International Works Transport
Conference, Paris, May 1963.

| | Future Development of Internal Transport in New Integrated Steelworks Producing Tonnage Steel, by F. W. Griese, G. Bulle. | BISI | 3408 |
|-----------------|---|------|-----------------|
| | Transport of Slag, Refuse and By-Products in Steelworks, by H. Bergrath. | BISI | 3402 |
| | Transportation of Semi-Finished and Finished Products From the Steelworks, by F. W. Holscher. | BISI | 3410 |
| | In What Ways and to What Degree Can the Internal Transport, the Handling Plant and the Production Plant be Integrated, by E. Bergermann, W. Koch. | BISI | 3401 |
| of R. GEI | ss Electric - Power Supply Within the Framework the West European Electricpower Industry, by Hochreutiner. MAN, per, Bulletin des Schweizerischen ektrotechnischen Vereins, No 12, 1963, pp 483-494. | | I-3630 50326 |
| Par | ected Articles From the Italian Report er Presented at the International Works usport Conference, Paris, May 1963. | | |
| | Centralised Control of Road Transport Vehicles Within the Works, by C. Volta, E. Sericano. | BISI | 3414 |
| | Handling of Slag and Works Refuse, by L. Corona, R. Cassani. | BISI | 3406 |
| | Some Technical and Organizational Aspects Relating to Transport and Dispatch of Finished and Semi-Finished Products of Steelworks, by G. Gerbe, F. Flora. | BISI | 3405 |
| | Main Characteristics of a Works Transport System for a Large Integrated Steel Works To Be Constructed in 1980, by C. Barlocco, A. Ricei. | BISI | 3400 |

p 4.

Fana Electric Power Plant 1961, Aust-Agder Power Plant 1961, Opdal Electric Power Plant 1962, Asker Municipal Electric Power Supply 1961, Askim Electric Power Plant 1962, Baranger Power Plant 1961, 11 pp. NORWEGIAN, per, Elektroteknish Tidsskrift, No 6, Army Map 1963, pp 263-265. (Eng Tr) Service A Glance at Finland's Power Supply, by Rauno Linkama. SWEDISH, per, Kraft Och Ljus, No 4, 1963, *ACSI I-3586 pp 102, 104-107. ID 22,0306 Political Kai Moltke Blasts SPP Program, 5 pp. DANISH, np, Information, 25 Sep 1963, p 7. JPRS 21813 Danish Communist Critique of Socialist People's Party Draft Program, 8 pp. DANISH, np, Land og Folk, 24, 28 Sep-1 Oct 1963, p 2. JPRS 21601 Moltved and Sorensen Criticize Program; Bilde Answers, 6 pp. DANISH, np, SF, Vol V, No 38, 26 Sep 1963, p 14. JPRS 21813 Danish Editor Discusses Danish Communism in the Light of the CPSU's Experience, by Ib. Norlund, 17 pp. DANISH, per, Tiden, Vol XXIV, No 5, 1963, pp 161-171. JPRS 21510 White Collar Employees as Part of the Working Class -- a Danish Communist View, by Kjeld Osterling, 13 pp. DANISH, per, Tiden, Vol XXIV, No 5, 1963, pp 193-200. JPRS 21510 A Letter to the Editor; For the Unity of Netherland Communists, 6 pp. DUTCH, per, De Brug, Vol VI, No 3, 7 Sep 1963, p 6. JPRS 21510 War or Peace -- Answers to Readers Questions, Part II, 6 pp. FRENCH, np, Drapeau Rouge Magazine, 21 Sep 1963,

Western Europe Political (Contú)

| Expanded Education in Marxism-Leninism in the Cells is Urged, by Waldeck Rochet, 9 pp. FRENCH, np, France Nouvelle, No 939, 16-22 Oct 1963, pp. 14-16. | JPRS 21861 |
|---|--------------|
| Le Communiste Expounds Problems of Regrouping Revolutionary Forces, 6 pp. FRENCH, per, Le Communiste, Vol X, No 93, 1963, pp 3, 4. | JPRS 21689 |
| Le Communiste Criticizes Soviet Leaders, by Michele Nestre, 5 pp. FRENCH, per, Le Communiste, Vol X, No 93, 1963, pp 8, 9. | JPRS 21689 |
| Belgian Communist Publicist Blume Attacks Chinese Position, by Jean Blume, 5 pp. FRENCH, np, Le Drapeau Rouge, 30 Sep 1963, p 1. | JPRS 21765 |
| The International Communist: French Communist Party Reiterates Criticism of Chinese Stand; Waldeck Rochet Criticizes Chinese on Disarmement and Coexistence, by Waldeck Rochet, 6 pp. FRENCH, np, L'Humanite, 17 Sep 1963, p 3. | JPRS - 21470 |
| Maurice Thorez's Speech to the Central Committee, 6 October, by Maurice Thorez, 14 pp. FRENCH, np, L'Humanite, 10 Oct 1963, pp 6, 7. | JPRS 21765 |
| French Dissidents Say Both Sides Are Wrong, But Back Chinese, by Pierre Frank, 5 pp. FRENCH, per, L'Internationale, No 14, Sep 1963, pp 1, 3. | JPRS 21470 |
| Francois Fejto Says Eisenhower Was the Cause of the Khrushchev-Mao Quarrel, by Francois Fejto, 8 pp. FRENCH, np, Lumiere, 29 Sep, 6 Oct 1963, p 3. | JPRS 21841 |
| French Communist Opposition Analyzes the Dispute, Backs Chinese Stand, With Reservations, by Andre Renaud, 16 pp. FRENCH, per, La Voie Communiste, No 37, Oct 1963, pp 8-11. | JPRS 21637 |
| French Dissident Communist Groups Issue Declaration For Communist Renewal in France and Against PCF, 9 pp. | |
| FRENCH, per, La Voie Communiste, No 37, Oct 1963, pp 12, 13. | JPRS 21637 |

Western Europe Political (Contd)

| Swiss Communist Party Resolution of 14-15 September 1963, 12 pp. GERMAN, np, Vorwaerts, 20 Sep 1963, pp 2, 3. | JPRS 21592 |
|--|------------|
| Swiss Communists Back MoscowEdgar Woog's Report to the Swiss Workers' Party Conference, 14-16 September 1963, 10 pp. GERMAN, np, Vorwaerts, No 39, 27 Sep 1963, p 4. | JPRS 21765 |
| Italian Socialists Present Their Economic Policy, 34 pp. ITALIAN, rpt. | JPRS 21808 |
| Italian Leftist Communists and the Chinese Communist Party, by Leone Iraci, 35 pp. ITALIAN, per, Corrispondenza Socialista, Vol IV, No 8,9, 1963, pp 445-460. | JPRS 21813 |
| Tosi-Longo Debate On: Is It Possible to Eliminate the Economic and Political Power of Monoplies in a Capitalistic Regime?, by Giorgio Tosi, Luigi Longo, 29 pp. ITALIAN, per, Critica Marxista, May-Jun 1963, pp 87-108. | JPRS 21192 |
| Italian Communist Organ Outlines the Basic Issues in Dispute, 12 pp. ITALIAN, per, Critica Marxista, Vol I, No 4, Jul-Aug 1963, pp 1-18. | JPRS 21510 |
| Regional Bodies and Central Leadership, by Carlo Galluzzi, 9 pp. ITALIAN, np, Rinascita, 28 Sep 1963, p 7. | JPRS 21592 |
| Italian Communist Party Surveys the International Communist Movement, 27 pp. ITALIAN, np, 1 Unita, 26 Oct 1963, pp 3-5. | JPRS 21779 |
| The Norwegian Communist Party and the Workers Movement, by Henry Hoff, 10 pp. NORWEGIAN, np, Friheten, 3 Oct 1963, pp 2, 7; 4 Oct 1963, pp 2, 14; 5 Oct 1963, pp 10, 11. | JPRS 21886 |
| Swedish Communist Party Prepares for 20th Congress Stockholm, 3-6 January 1964, 5 pp. SWEDISH, np, Ny Dag, 23 Sep 1963, p 3. | JPRS 21601 |

Western Europe Military

| | |
|--|-----------------------------|
| Physical Aptitude of Naval Force Navigating Personnel, 11 pp. FRENCH, rpt, 3 Sep 1963, General Order J/295A. | Navy 5807010063 |
| Signal Communications. FRENCII, rpt, Les Transmissions, Encl to R-246-58, OUSARMA, France. | *ACS1 I-3705 ID 2076393 |
| FRENCH, per, Bulletin d'Information - Ministère des Armees Air, No 6, 25 Mar 1963, p 1. | *ACSI I-3641 ID 2251714 |
| Civil Defense - Evolution of a Concept, 10 pp. FRENCH, per, Protection Civile et Industrielle, No 108, Jun 1963, pp 7-10. | ACSI 1-3379 ID 2246299 |
| Draft of a Law to Regulate the Whereabouts of the Civil Population in the Event of Defense, Stay Regulations Law, 35 pp. GERMAN, rpt, Drucksache IV/895 Entwurf Eines Gesetzes zur Regelung des Aufenthalts der Zivilbevolkerung im Verteidigungsfall Aufenthaltsregelungsgesetz, 14 Jan 1963, pp 1-22. | ACSI I-2650-A ID 2235105 |
| Praft of a Law on Self-Protection of the Civil Population, Self-Protection Law, 78 pp. GERMAN, rpt, Drucksache IV/897 Entwurf Eines Gesetzes Uber den Selbstschutz der Zivilbevolkerung, Selbstschutzgesetz, 14 Jan 1963, pp 1-44. | ACSI I-2650-B ID 2235105 |
| Hit Performance of the DELTA Small Sight for Light AA Weapons, 11 pp. GERMAN, rpt, Die Treffleistung des DELTA- Kleinvisiers fuer Leichte Fliegerabwehrwaffen, 4 Mar 1963, pp 1-11, Encl No 1 to 2834006263 OARMA, Bonn. | ACSI I-3303 ID 2230130 |
| Concrete Field-Type Shelter, by H. Isler, 13 pp. GERMAN, per, Technische Mitteilungen fuer Sappeure Pontoniere und Mineure, No 4, Jan 1956, pp 157-179. | ACSI I-3307 ID 2244441 |
| The French Armed Forces of Yesterday and Tomorrow, by Fernand Schneider. GERMAN, per, Truppenpraxis, No 7, 1963, pp 497-501. | *ACSI I-3679 ID 2251727 |
| The Austrian Federal Army, by A. Segur-Cabanac. GERMAN, per, Truppenpraxis, No 9, 1963, pp 663-669. | *ACSI I-3680 ID 2251728 |

mestern Europe Geographic

Land Survey - Land Survey Office Report, 42 pp. FINNISH, bk, Maanmittaus - Maanmittaushallituksen Keitomus, 1958, pp 1-18. (Call No GA66 F5 1954/6 lng Tr)

Army Map Service

Bench Mark List I of the Second Levelling of Finland, by Erkki Kaariainen, 353 pp. FINNISH, per, Suomen Geodectisen Laitoksen Julkaisuja, No 57, 1963, pp 26-164.

ACSI I-3149 ID 2240857

Comparison Between Coast and Geodetic Survey's and Survey Office's Adjustment of Finland's Triangulation Net, by Sven Vik.

SWEDISH, rpt, Jamforelser Mellan Coast and Geodetic Survey's Och Lantmateristyrelsens

Utjamning Av Finlands Triangelnat, Part I, II, 1956, pp 1-27; 1-35.

*ACSI I-3404 ID 2246295

Sociological

A Policeman Saved My Life, 12 pp. FINNISH, per, Nyrkki, No 3, 1963, pp 2-9, Encl No 1 to IR 2831004363, OUSARMA, Finland.

ACSI I-3227 ID 2232636

Revisionists Discuss Possibility of Dutch Communist Unity, 8 pp. DUTCH, per, <u>De Brug</u>, Vol VI, No 3, 7 Sep 1963, pp 1, 2.

JPRS 21510

Draft Law Concerning Structural Measures for the Protection of the Civilian Population, Protective Structure Law. GERMAN, rpt, Drucksache IV/896 Entwurf Eines Gestzes Über Bauliche Massnabmen zum Schutz der Zivilbevolkerung, Schutzbaugesetz, 14 Jan 1963, pp 2-33.

*ACSI I-2418 ID 2229445

Possibilities for Communist-Socialist Unity in Italy, by Alfredo Reichlin, 15 pp. ITALIAN, per, Critica Marxista, Vol I, No 4, Jul-Aug 1963, pp 19-38.

AFRICA

Economic

Selected Articles From the French Newspaper An Nasr.

5 Oct 1963, p 3.

Achievements in Matters of Public Works,
Reconstruction and Transportation, 7 pp.

5 Oct 1963, p 3; 8 Oct 1963, p 2.

Industrialization, 6 pp.

6, 7 Oct 1963, p 6; 8 Oct 1963, p 6; 9 Oct 1963, p 6. JPRS 21847 Algerian Commercial Policy, 6 pp.

11 Oct 1963, p 3. JPRS 21796
The Economy of the Batna Region, 5 pp.

Problems of the Socialist Industrial Sector, 6 pp.
FRENCH, np, El Moudjahid, 31 Aug 1963, pp 8, 9.

JPRS 21639

Political

On Behalf of a National Democratic Constitution in Morocco, by Ali Yata, 5 pp.
ARABIC, per, al-Mabadi, 10 Jul 1963, pp 3-11.

JPRS 21863

Geographic

Visit at Dizengoff--West Africa, by R. Ben-Shoshan, 6 pp. HEBREW, np, Haaret, 2 Oct 1963, pp 10, 11. JPRS 21683

Sociological

Speech by Mohammad Farhat on Problems of Moroccan Youth, 5 pp.
ARABIC, per, al'Mabadi, Jun 1963, pp 3-9.

Resolutions of the Eleventh Congress of the Association of Tunisian Students, 10 pp.
FRENCH, np, 1'Action, 4 Sep 1963, p 2.

JPRS 21639

The Documentation Service of the Secretariat of Stage for Cultural Affairs and Information, by Ali Mansour, 5 pp.
FRENCIL, np. La Presse de Tunisie, 9 Oct 1963, p 2.

JPRS 21847

MIDDLE EAST

Economic

Significant Results of United Arabic Republic
Three-Year Development Plan, 8 pp.
ARABIC, np, al-Ahram, 24 Sep 1963, pp 1, 7.

JPRS 21674

From a Labor Economy to a Labor Society, 16 pp.
HEBREW, np, Davar, 27 Sep 1963, p 12.

JPRS 21683

Political

Syrian Communist Party Statement Approves Soviet
Open Letter of 14 July, 7 pp.
ARABIC, np. al-Ittihad, 5 Oct 1963, pp 3, 4.

JPRS 21765

Lebanese Communists Reject Chinese Line, Back Moscow, 5 pp. ARABIC, np, al-Nida', 24 Sep 1963, pp 1, 4. JPRS 21765

Publication of the Protocol Attached to the Economic and Technical Cooperation Agreement Between the Government of the United Arab Republic, Province of Syria, and the Government of the Union of Soviet Socialist Republics.

FRENCII, rpt, Publication du Protocole Annexe a 1'Accord de Collaboration Economique et Technique Entre le Gouvernement de la Republique Arabe Unie Province Syrienne et le Gouvernement de 1'Union des Republiques Sovietiques Socialistes, 27 Sep 1960, Encl No 2 to IR 2891017663, OUSARMA, Syria.

*ACSI I-3704 ID 2251582

Mapai to Deepen Ties With Members, Members Air Requests and Suggestions, 7 pp. HEBREW, np, Davar, 27 Sep 1963, p 12.

JPRS 21683

Karf Yasif Prepares for Hot Elections, by Etalla Mantsur, 5 pp.
HEBREW, np, Haaretz, 4 Oct 1963, p 9.

JPRS 21683

Let us Cease to Vilify the Soviet Union. We Shall Fight for Improved Israeli-Soviet Relations. Anti-Soviet Campaign--Against National Interests, 6 pp. HEBREW, np. Kel Haam, 2 Oct 1963, p 1.

JPRS 21683

Israeli Communist Sneh Points Out Chinese Errors, by Mosheh Sneh, 10 pp.
HEBREW, np, Kol Haam, 4 Oct 1963, pp 2,5.

JPRS 21841

Conference of Marxist Theoreticians From Arab Communist Parties, 47 pp. HEBREW, np, Kol Haam, 9, 11, 14, 15, 17 Oct 1963.

Middle East Military

Arab Countries Fear Israel Plans to Obtain Nuclear Weapons, by 'Ali Kazimi, 6 pp. ARABIC, np, al-Tali'a, No 1871, 23, 24 Sep 1963, p 3.

JPRS 21674

Frontier Cuard Absorbs Regular Soldiers, by Gyiora Ilam, 5 pp.
IEBREW, np, Lamerhav, 9 Oct 1963, pp 3, 8.

JPRS 21863

Sociological

New Perspectives in a New Institute, by Sh. Kats, 5 pp.
HEBREW, per, Mada, Vol VIII, No 1, Jul 1963, pp 42-44.

JPRS 21607

News and Developments at the Universities, 10 pp. HEBREW, per, Mada, Vol VIII, No 1, Jul 1963, pp 53-56.

JPRS 21607

A Study of Plural Societies in Sikkim, Lepcha, Bhutia and Nepalee, - Nakane Chie. JAPANESE, bk, 1958, pp 17-64.

*ACSI I-3710 ID 2251743 319th MI Bn

FAR EAST

Economic

Communist China Railroad Passenger Timetable July-November 1963, 187 pp. CHINESE, mono, Ch'uan-kuo T'ieh-lu Lu-k'o Lieh-ch'e Shih-k'o Piao, Jul-Nov 1963, pp 1-128.

JPRS 21963

Highway Laws and Regulations, by Shao Wen-pin, 23 pp. CHINESE, bk, Kung-lu Fa-ling Chi, Taiwan, 1959, Abstracts From pp 9, 28-31, 37-49, 79-85, 130-132, 218, 219, 225, 226, 229-232. (Call No EIF 406898 Eng Tr) Army Map Service

Selected Articles From the Chinese Periodical Chi-hsieh Kung-yeh.

No 7, 1963. Adjust the Working Environment and Launch a Civilized Way of Production, 5 pp, (pp 21, 22). JPRS 21569

Metal Structural Members and Techniques for Their Manufacture, 7 pp, (pp 29-31).

No 8, 1963. A Method to Rectify Product Quality in Chekiang Province Machine Industry, by Ling Chiung, 5 pp, (pp 12, 20, 21).

JPRS 21569

Further Develop the Specialized Concentrated Production of Metal Fastener, by Chu-hsi-ken, Ch'in Ch'eng-chi, et al, 9 pp, (pp 29-32).

No 9, 1963, pp 24-27. Pneumatic Purification of Sand Used in Casting, by T'eng No. 9 pp.

JPRS 21569

No 10, 1963. The Lumber Saving Experience of Ch'en-yang Cable Factory, by Ch'en Lan, 6 pp, (pp 9, 10). JPRS 21656

Su-chou Insulator Factory Improves Quality and Reduces Cost, by Chi Nan-lin, 5 pp, (pp 10, 11).

Rules and Principles of Mutual Coordination Between Industry and Agriculture Under Socialism, by Wang Chu-chuang, 36 pp. CHINESE, per, Ching-chi Yen-chiu, No 6, 1963, pp 20-32.

JPRS 20893

Suggestions on the Development of Agricultural Meteorology, by Jao Hsing, 7 pp. CHINESE, per, Chung-kuo Nung-pao, No 4, 1963, pp 7, 8.

Cadre Participation in Collective, Productive Labor Essential, 19 pp. CHINESE, per, Hung-ch'i, No 13, 14, 10 Jul 1963. JPRS 21795 Socialist Industrialization of China, by Po I-po, GINESE, per, Hung Ch'i, % 20, 1963, pp 34-41. JPRS 21877 Raising Labor Intensity and the Production of Surplus Value, by Chu Tseng-ming, 6 pp. CHINESE, per, Kuang-ming Jih-pao, 16 Sep 1963, p 4. JPRS 21762 Better Organization of Efforts to Save Labor, by Hsing Yu-hung, 5 pp. CHINESE, per, Lao Tung, No 5, 18 May 1963, JPPS 21856 pp 1-3. Some Problems in the Work of Organizational Personnel in Enterprises, by Han Tzu-tung, Chang Temin, 5 pp. CHINESE, per, Lao Tung, No 5, 18 May 1963, pn 12, 13. JPRS 21856 Safety in Electric Power Consumption in Agriculture, by Shen Chen-hsin, 6 pp. CHINESE, per, Lao Tung, No 5, 1963, pp 27-29. JPPS 21848 Selected Articles From the Chinese Periodical

JPRS 21657

Advance Animal Husbandry in Livestock Producing Regions to a New Stage of Development, 19 pp, (pp 22-26).

Min-tsu T'uan-chieh, No 61, 1963.

How We Have Overcome Drought and Developed Livestock Production, by Yang Li-sheng, 10 pp, (pp 33, 34).

Progress Report of the Developing Livestock Industries in Jo-erh-kai Hsien, by Ch'en Tien-ch'ing, 7 pp, (nn 37-39).

How the Red October People's Commune Improved the Quality of Its Sheep, by Lo Yu-chih, 9 pp, (pp 58-40).

Some Opinions on High-Voltage Electrical Equipment for Rural Use, by Lu Shou-ch'un, 7 pp. CHINESE, per, Tien Shih-chieh, No 5, 1963, pp 171-173.

JPRS 21660

Opinions Deduced From a Survey on Low-Voltage Electrical Equipment for Rural Areas, by Tou Chih, 7 pp. CHINESE, per, <u>Tien Shih-chieh</u>, No 6, 1 Jun 1963, pp 203, 204.

JPRS 21656

Selected Articles From the Chinese Periodical Ti-li, No 3, 1963.

JPRS 21624

The Natural Grazing Field and Its Utilization in Sinkiang, by Shen Tao-ch'i, 17 pp, (pp 97-102).

The Water Supply Problem for Paddy Rice in the Area of Hills and Mounds in Southern Kiangsu Province, by Ch'i Yen-nien, Hsiung Kuang-cheng, et al, 7 pp, (pp 102-104).

The Function of Covering Plants in the Reclamation Utilization of Saline Soil, by Liu Fang-hsun, 6 pp, (pp 108, 109).

Seacoats With Red Tree Forests, by Wang Ying, 10 pp, (pp 110-112, 138).

The Chemical Geography of Fluorine, by Wang Hua-tung, Yu Chieng, 9 pp, (pp 113-116).

Making a Medium-Scale Land Utilization Map, by Hou Hsueh-t'ao, Chou Wei-kung, 12 pp, (pp 117-121).

A Review of Professor Chu Ping-hai's Book, Chung-kuo Ch'i-hou, China Climate, by T'an Kuan-jih, Weng Ch'u-ming, 6 pp, (pp 143, 144).

Photographs Taken of the Landscape in Western Szechwan Province, by Lo Lai-hsing, 5 pp, (145, 146).

The Crystallization of Vietnam-Chinese Amity, 5 pp. CHINESE, per, Yueh-nan Chieh-shao, No 2, 1963, pp 7, 8.

JPRS 21655

Extensively Unfold the Movement in Support of Agriculture, 6 pp. CHINESE, per, Yueh-nan Chieh-shao, No 2, 1963, pp 14, 15.

JPRS 21655

Water Conservancy Projects Under Expansion and Construction, 6 pp.
CHINESE, per, Yueh-nan Chieh-shao, No 2, 1963, pp 16, 17.

JPRS 21655

Increase Production, Save the Economic Declaration and Confront Malaysia by ASMU, 14 pp.
INDONESIAN, np. Harian Rakjat, 24 Aug 1963, p 3;
26 Aug 1963, p 1, 3; 27 Aug 1963, p 3.

JPRS 21542

Telecommunication, by Masaru Takahashi, 12 pp.
JAPANESE, bk, Waga Kunio Musubu Saisho no Kokusai
Denshin-sen-Nagasaki - Urajjio Kan Kaiteisen ni
Tsuite-, Tokyo, Mar 1963, pp 26-31. (Eng Tr)

Army Map Service

Refrigeration, by Junkichi Nagaoka, Kazuo Tanaka. JAPANESE, per, Suisangaku Zenshu, Vol VII, 1962.

Dept of Interior SH211 E82 No 473

Telecommunication, by Tatsuo Takahashi, 15 pp. JAPANESE, per, Tokyo no Denwa (2), No 3, 1963, pp 32-43. (Eng Tr)

Army Map Service

Selected Articles From the Korean Periodical Kulloja.

JPRS 21888

No 13, 5 Jul 1963. The New System of Materials Supply and the Strengthening of Cooperative Production, by Kim Yong-gun, 9 pp, (pp 22-27).

Technical Revolution and the Plans for Technological Development, by Pae Yong-ch'on, 5 pp, (pp 46-48).

No 15, 5 Aug 1963. Improvement of Labor Administration As an Important Prerequisite for Increasing Output Per Worker, by Paek Sun-il, 18 pp, (pp 2-8).

The Party's Basic Line of Economic Construction and Building of an Independent National Economy, by Chung Tae-sik, 26 pp, (pp 9-17).

| Major Tasks To Be Undertaken to Carry Out the People's Economic Plan for the Second Half of 1963, by Pak Pung-sik, 5 pp. KOREAN, per, Kyongje Chisik, No 7, 1963, pp 2-5). | JPRS 21702 |
|---|--------------------|
| An Analysis of Agricultural Cooperative Management, by Farm Management Supervision Bureau of the Agricultural Committee, 7 pp. KOREAN, per, Kyongje Chisik, No 7, 1963, pp 40-44. | JPRS 21702 |
| Agricultural Centers in North Korea, 5 pp. KOREAN, per, Kyongje Chisik, No 7, 1963, pp 45-48. | JPRS 21702 |
| Coordination of the Transportation System in North Korea, by Yu Wan-sop, 7 pp. KOREAN, per, Kyot'ong Unsu, No 7, 1963, pp 46-48. | JPRS 21702 |
| Methods of Labor Standardization Based Upon Estimates of Producers, 5 pp. KOREAN, np, Minju Choson, Vol CXC, 23 Aug 1963, p 2. | JPRS 21571 |
| Part I, Drafting Cash Transaction Plans for Cooperative Farms, by Lee Chong-son, 7 pp. KOREAN, np, Minju Choson, 24, 25 Aug 1963. | JPRS 21571 |
| Part II. Drafting Cash Transtion Plans for Cooperative Farms, by Lee Chong-son, 7 pp. KOREAN, np. Minju Choson, 24, 25 Aug 1963. | JPRS 215 71 |
| Tasks of Current Importance in Labor Administration, by Paek Son-il, 7 pp. KOREAN, np, Nodong Sinmun, 30 Aug 1963, pp 2, 3. | JPRS 21571 |
| Construction Companies Must Adopt Efficient Methods and Financial Planning, by J. Sambuunyam, 5 pp. MONGOLIAN, per, Ediyn Dzasag Erhiyn Asuudal, No 4, 1963, pp 30-32. | JPRS 21851 |
| Methods Outlined for Calculating the Cost of Products of Agricultural Artels. by S. Jadamba. V. F. Mel'nikov, 11 pp. MONGOLIAN, per, Ediyn Dzasag Erhiyn Asuudal, No 4, 1963, pp 59-64. | JPRS 21851 |
| * •• | |

| Trought (cours) | | |
|---|------|----------------------|
| The Trade Union of Trade and Transport Workers and Employees, by J. Gombo, 6 pp. MONGOLIAN, np, Hodolmor, 14 Sep 1963, p 2. | JPRS | 21851 |
| The Trade Union of Construction Workers and Employees, by D. Bathurel, 5 pp. MONGOLIAN, np, Hodolmor, 18 Sep 1963, p 2. | JPRS | 21851 |
| Party Members Must Be Uniformly Distributed in Production Areas, by P. Piljir, 5 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jul 1963, pp 36-38. | JPRS | 21544 |
| Product Costs and Profitable Operation of State Farms and Collective Farms, 28 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jul 1963, pp 66-80. | JPRS | 21544 |
| Preparation for Winter, The Most Urgent Task, 5 pp. MONGOLIAN, np, Unen, 1 Aug 1963, p 1. | JPRS | 21652 |
| Mechanized Livestock Breeding Stations Constitute An Important Aid to Agricultural Artels, by T. Sam'yaa, 6 pp. MONGOLIAN, np, Unen, 2 Aug 1963, p 3. | JPRS | 21652 |
| Prescriptions and Pharmacy Control of Drugs in the Democratic Republic of Vietnam, by Dong Han Hoi, 5 pp. RUSSIAN, per, Aptechnoye Delo, Vol XII, No 4, Jul-Aug 1963, pp 82-84. | JPRS | 21490 |
| Policy of Dictatorship of Proletariat Justified Against Chinese Attacks, by I. Nikolayev, V. Pochepko, 5 pp. RUSSIAN, np, Leningrad Pravda, 3 Oct 1963, p 3. | JPRS | 21861 |
| Utilize the Resources of the Far East, by A. Verevkin, 6 pp. RUSSIAN, per, Plan Khoz, No 9, 1963, pp 72-75. | JPRS | 21693 |
| Chinese and Soviet Approaches to Foreign Economic Relations, by Z. Mirskiy, 5 pp. RUSSIAN, np. Trud, 22 Aug 1963. | JPKS | 21541 |
| Telecommunications in Japan. SPANISH, per, Comunicaciones y Transportes, No 22, 1963, pp 45-48. | | I I-3606-E 250313 |

Selected Articles From the Vietnamese Periodical Hoc Tap.

No 9, 1963. Let Us Strengthen Legislation in Economic Activity of State Agencies and Factories, by Hoang Quoc Viet, 7 pp, (pp 17-21).

Toward Improving the Work of State Agencies, by Le Tat Dac, 7 pp, (pp 22-26).

Let Us Encourage People in the Delta to Take Part in Economic Development in the Highland, by Nguyen Duong Tam, 9 pp, (pp 37-41, 45).

Socialist Labor Groups and the Training of Cadres, by Duong Huong, 9 pp, (pp 46-51).

Correctly Define and Understand Directions for Production and Work, by Hoang Huu Nhan, 20 pp, (pp 52-58).

No 10, 1963.
Discussion on the Direction of Production of the Agricultural Cooperatives, by Truong Ngoc, 18 pp, (pp 25-30).

Transport and Communications Must Better Serve Production and Life, by Duong Bach Dien, 20 pp, (pp 31-37).

Better Distribution of Goods for Hanoi, by Xuan Toan, 6 pp. VIETNAMESE, np, <u>Lao-dong</u>, No 1259, 5 Sep 1963, p 3.

Basic Labor Unions and the Four Good Standards, 15 pp. VIETNAMESE, np, Lao-dong, No 1259, 5 Sep 1963, p 2.

Labor Protection Plan for 1964, by Minh Tam, 6 pp. VIETNAMESE, np, Lao-dong, No 1261, 10 Sep 1963, p 3.

Selected Articles From the Vietnamese Periodical Nghien Cuu Kinh Te, No 15, 1963.

Determination of Direction and Quantity in Specialization of Production, by Minh Chi, 7 pp, (pp 41-43).

Suggestions Concerning Distribution in Agricultural Cooperatives for Coming Years, by Phan Tan Dai, 15 pp, (pp 49-54).

JPRS 21906

JPRS 21917

JPRS 21917

JPRS 21917

| Selected Articles From the Vietnamese Periodical Nghien Cuu Kinh Te, No 15, 1963. (Contd) | JPRS | 21707 |
|---|------|-------|
| Increase the Production of Export Goods, by Nguyen Kien Toan, Le Dinh Hau, 24 pp, (pp 55-66). | | |
| Principal Economic and Cultural Indexes of North Vietnam's First Five-Year Plan, 12 pp, (pp 67-72). | | |
| Selected Articles From the Vietnamese Newspaper Nhan Dan. | | |
| 8 Aug 1963, p 3. Seven Months of Brave Struggle in the Coal Regions, by Do Phuong, 7 pp. | JPRS | 21893 |
| 18 Aug 1963, p 2. The Struggle in the Salt Fields of Nam Dinh, by Ngo Du, 7 pp. | JPRS | 21579 |
| 25 Aug 1963, p 2. Fertilizers and Soil Improvement in Northwest, by Nguyen Tuan, 5 pp. | JPRS | 21490 |
| 26 Aug 1963, p 2. Quang-binh Can Be Developed Into a Wealthy Province, 9 pp. | JPRS | 21490 |
| 28 Aug 1963, p 2. Progress in Yen Bai Mountain Province, 7 pp. | JPRS | 21490 |
| 29 Aug 1963, p 3. Waste of Capital in Basic Construction, by Nguyen Van Rang, 6 pp. | JPRS | 21490 |
| 23 Sep 1963, p 2; 24 Sep 1963, p 2. Achievement at Hung Yen, by Phan Quang, 9 pp. | JPRS | 21917 |
| 24 Sep 1963, p 3. Labor Productivity and Capital Construction, by Le Huu Ha, 5 pp. | JPRS | 21917 |

Far East Political

Information From the 1962 North Korean Yearbook, 529 pp.

KOREAN, bk, Choson Chungang Yongam 1962, Poyongyang, 10 Dec 1962, pp 1-6, 177-223, 229-296, 338-340, 349-377, 388-394, 431-437,532-535, 544.

Letters To the Editors: How Should Arduous Struggle and Happiness Be Evaluated?, 10 pp. CHINESE, per, Ch'iao-wu Pao, No 4, 1963, pp 36, 37.

Hold High the Red Banner of Mao's Thinking -- In Commemoration of the Fourtieth Anniversary of China

JPRS 21631

JPRS 21563

JPRS 21884

JPRS 21559

JPRS 21561

Youth, 10 pp. CHINESE, per, Chung-kuo Ch'ing-nien, No 20, 21, 20 Oct 1963, pp 2, 3.

Selected Articles From the Chinese Periodical Hung-ch'i.

No 17, 6 Sep 1963. Origin and Development of Differences Between Leadership of CPSU and Ourselves, 35 pp, (pp 5-32).

The New Holy Alliance Will Come To No Better End Than the Old, 7 pp, (pp 33-37).

Why Does Khrushchev Spin Wild Fabrications On Ruins of Destroyed Imperialism?, by Wen I-chu, 8 pp, (pp 38-43).

Beware of Counterfeits, by Tu Ching, 14 pp, (pp 44-48).

Birds of a Feather Flock Together, by Hung Ku, 16 pp. (pp 49-53).

Logic and Brains, by Lin Ming-hui, 11 pp, (pp 54-57).

No 19, 1 Oct 1963, pp 1-14. The Fourteenth Anniversary of the Great Chinese People's Republic, 5 pp.

No 20, 22 Oct 1963, pp 17-27. JPRS 21877 A Critique of the Kennedy Administrations Military Policy, by Fan Ti, 15 pp.

Far East Political (Contd)

Selected Articles From the Indonesian Newspaper Harian Rakjat.

| 7 Sep 1963, p 3. The Major Indonesian Policies on Malaysia, Nasakom, Should Be Effected With Conviction, 5 pp. | .JPRS 21542 |
|---|-------------|
| 10 Sep 1963, p 3. The Head of the Communist Party of Indonesia Lectures on International Communism, by D. N. Aidit, 7 pp. | JPRS 21576 |
| 14 Sep 1963, p 3. Speech in Peiping by the Head of the Communist Party of Indonesia, 9 pp. | JPRS 21576 |
| 18 Sep 1963, p 3. D. N. Aidit's Speech to a Mass Meeting in Pyong-yang, by D. N. Aidit, 9 pp. | JPRS 21576 |
| 28 Sep 1963, pp 1, 3. Continue the Confrontation Against Malaysia, by Njoto, Jusuf Adjotoron, 9 pp. | JPRS 21905 |
| 30 Sep 1963, p 3. B. O. Hutapea's Welcoming Speech Honoring D. N. Aidit, by B. O. Hutapea, 6 pp. | JPRS 21905 |
| 4 Oct 1963, p 3; 5 Oct 1963, p 3. The International Communist Movement and the Southeast Asian Revolution, by D. Y. Aidit, 13 pp. | JPRS 21905 |
| Japanese Communist Editor Refutes Socialist Analysis of the Dispute, by Seiichi Ishida, 8 pp. JAPANESE, np, Akahata, 8 Oct 1963, p 5. | JPRS 21886 |
| The Role of the Party Committee as Helmsman in Administrative and Economic Tasks, by Yi Song-ho, 7 pp. | |
| KOREAN, per, <u>Kulloja</u> , No 13, 5 Jul 1963, pp 17-21. | JPRS 21887 |
| World-Historic Mission of the Proletariat, by Yi Chin-hun, 17 pp. KOREAN, per, <u>Kulloja</u> , No 15, 5 Aug 1963, pp 18-23. | JPRS 21887 |
| Subjective Factors and International Factors in the | |
| Revolution, by No Sung-kwon, 12 pp. KOREAN, per, Kulloja, No 15, 5 Aug 1963, pp 24-28. | JPRS 21887 |

Far East Political (Contd)

| Revolutionary Government is Foundation of Our People's Government, by Kim U1-ch'on, 9 pp. KOREAN, np, Minju Choson, 30 Aug 1963, pp 2, 3. | JPRS | 21572 |
|---|-------|-------|
| Party Section Being Expanded, 11 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jun 1963, pp 3-7. | JPRS | 21544 |
| Work of Party Organizations is Being Changed and Improved, by N. Jigjidsuren, 7 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jul 1963, pp 44-47. | JPRS | 21544 |
| Primary Party Committee at the Nairamdal Agricultural Artel, by A. Baljinnyam, 6 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jul 1963, pp 49-51. | JPRS | 21544 |
| Decision to Improve Public Services Adopted by Council of Ministers of the Mongolian People's Republic, 6 pp. MONGOLIAN, np, Unen, 26 Jul 1963, p 1. | JPPS. | 21652 |
| The Heroic Road of Lenin's Party for Past Sixty Years, 6 pp. MONGOLIAN, np, Unen, 30 Jul 1963, p 1. | JPRS. | 21652 |
| CPSU Theoretical Journal Accuses Chinese of Abandoning Marxism-Leninism, by T. Timofeyev, 13 pp. RUSSIAN, per, Kommunist, No 13, Sep 1963, pp 33-42. | JPRS | 21510 |
| Pravda Accuses China of Intransigence in Indian-Chinese Border Conflict Negotiations, 8 pp. RUSSIAN, np, Pravda, 19 Sep 1963, np 2, 3. | JPRS. | 21510 |
| Spurious Revolutionary Phrase-Mongering by Chinese Communist Leadership Criticized, by A. Butenko, 7 pp. RUSSIAN, np, Sovet Estoniya, 3 Oct 1963, p 3. | JPRS | 21861 |
| Trotskyite International Opposes Test Ban Treaty, Urges Nuclear Weapons for China, 9 pm. SPANISH, np, <u>Lucha Obrera</u> , Sep 1963, np 4-6. | JPRS | 21637 |
| Diem's Government and Vietnamese Residents in France, by Nguyen Khac Vien, 6 pp. VIETNAMESE, per, <u>Cuu-Quoc</u> , 14 Jul 1963. | JPRS. | 21599 |

Far East Political (Contd)

Improvement of Our Proletarian Stand and Ideology, by Nguyen Chi Than, 26 pp. VIETNAMESE, per, Hoc Tap, No 10, 1963, pp 1-13.

JPRS 21906

The Great Development and International Role of the People's Republic of China, by Hong Hai, 9 pp. VIETNAMESE, per, Hoc Tap, No 10, 1963, pp 62-67.

JPRS 21906

Ho Chi Minh's Speech at the Conference on Propaganda and Training in Mountain Regions, by Ho Chi Minh, 11 pp. VIETNAMESE, np, Nhan Dan, 11 Sep 1963, p 1.

JPRS 21599

Military

Peace Can Be Won Only Through Fighting, by Hyon Jun, 7 pp.
KOREAN, per, Kulloja, No 14, 20 Jul 1963, pp 16-21.

JPRS 21887

Chinese Provocation On the Soviet Border, by O. Matskevich, 5 pp.
RUSSIAN, np, <u>Kazakhstan Pravda</u>, 24 Sep 1963, p 3.

JPRS 21701

Sociological

Selected Articles From the Chinese Periodical Ch'iao-wu Pao, No 4, 1963.

JPRS 21563

Strengthen Class Education and Raise Class Consciousness, 13 pp, (pp 1, 2).

The Unfailing Light Shining Far and Wide -- Commemoration of the Fourth Anniversary of the Death of Ch'en Wan-li, by Mao-nan, An-chi, et al, 24 pp, (pp 3-7).

The Great Classromm For the Class and Production Struggle, by Hsueh Shen-i, Hsiao-ying, 6 pp, (p 11).

Minutes of Forum of Current University Graduates Among Returned Overseas Students, 18 pp, (np 30-33).

The Problems of Higher Studies and Employment for Returned Overseas Students, by Po-nien, 11 np, (pp 34, 35).

Far East Sociological (Contd)

A Communist Viewpoint on Happiness, by Wei Wei, 48 pp. CHINESE, per, Chung-kuo Ch'ing-nien, No 20, 21, 20 Oct 1963, pp 5-14. JPRS 21884 Organization of Youth to Study Chairman Mao's Writings, by Communist Youth League Committee of the Harbin Clothing Factory, 11 pp. CHINESE, per, Chung-kuo Ch'ing-nien, No 20, 21, 20 Oct 1963, pp 27, 28. JPRS 21884 A Model Woman Worker, by Shuai Meng-ch'i, 5 pp. CHINESE, per, Chung-kuo Fu-nu, No 9, 1963, pp 3, 4, 16. JPRS 21639 What Women Should Live For in Communist China, 8 pp. CHINESE, per, Chung-kuo Fu-nu, No 9, 1963, pp 18-20. JPRS 21639 Selected Articles From the Chinese Periodical Hung-ch'i. JPRS 21561 No 19, 1 Oct 1963. Visiting the Ilsiao-p'ing-i Commune in Harvest Time, by Wu Hsiang, Chang Chiang-chen, 10 pp, (pp 27-33).Concerning Uncovering Problems and Analysis and Study, by Yen Chung-ping, 12 pp, (pp 34-41). JPRS 21877 No 20, 22 Oct 1963. Apologists of Neocolonialism, 21 pm, (pm 1-16). The Life of American Negroes and Their Literature,

Soviet-Supported Hospital in Cambodia, by
Tran Van Zuong, 5 pp.
FRENCH, np, <u>la Verite</u>, No 656, 16 Sep 1963, n 3.

Unity in the National Program of Rehabilitation,
6 pp.
INDONESIAN, np, <u>Harian Rakjat</u>, 23 Aug 1963, pp 3, 4.

The Police, as an Agency of the Revolution, Can Be
an Upholder of the Law, 9 pp.
INDONESIAN, np, Harian Rakjat, 6 Sep 1963, p 3.

JPRS 21542

by Shih Yang Ch'ien, 8 pp, (pp 28-33).

Far East Sociological (Contd)

Let Us Intensify Communist Moral Education Among the Students, 5 pp.

KOREAN, per, Inmin Kyoyuk, No 7, 1963, pp 3-7.

JPRS 21688

How to Conduct Effective Class Education at the First and Second Grade Levels, by Kang Yong-suk, 5 pp. KOREAN, per, Inmin Kyoyuk, No 7, 1963, pp 8-12.

JPRS 21688

Let Us Teach Russian Grammar More Effectively, by Pak Heung-yong, 6 pp.
KOREAN, per, Inmin Kyoyuk, No 7, 1963, pp 32-35.

JPRS 21688

Selected Articles From the Korean Periodical Kulloja.

JPRS 21887

No 12, 5 Jul 1963. The Role of the South Korean Students in National Liberation and Democratic Revolution, by Ha Ang-ch'on, 14 pp, (pp 2-11).

Class Spirit and Human Spirit, by Kim Hyong-il, 5 pp. (pp 12-16).

On the Nature of Communist Morality, by O Sang-jin, 5 pp, (pp 42-45).

No 14, 20 Jul 1963. The Nation's Housekeeping and the Nature of the Responsibility of the Workers, by Kang Hui-won, 8 pp. (pp 2-7).

The Problem of Mobilizing the Masses of the People, by Kim Chong-bong, 6 pp, (pp 22-26).

No 15, 5 Aug 1963.

Socialist Realism and Problems of Writers Individuality, by Yun Chang-lyue, 18 pp, (pp 34-40).

Outstanding Success in Party Educational Policies, by Yun Ki-pok, 6 pp.

KOREAN, np, Minju Choson, 29 Aug 1963, p 2.

JPRS 21572

National Culture and Art Blooming Under Rule of the People Ung-gol, 6 pp.
KOREAN, np, Minju Choson, 30 Aug 1963, p 2.

JPRS 21572

Realization of Party Policies for Advancing Lives of the People, by Kim Chun-chom, 11 pp. KOREAN, np, Nodong Sinmun, 1 Sep 1963, pp 2, 3.

JPRS 21572

Far East Sociological (Contd)

The Korean Labor Party is the Founder and Leader of the People's Political Authority, by Yang Hyong-sop, 11 pp.

KOREAN, np. Nodong Sinmun, 3 Sep 1963, np 2, 3.

JPRS 21572

Selected Articles From the Mongolian Periodical Ediyn Dzasag Erhiyn Asuudal, No 4, 1963.

JPRS 21851

JPRS 21599

The New Public Education System and the Tasks of State Organizations, by B. Sambuu, 8 np, (pp. 33-36).

Rules for Dismissal of Deputies to Local Murals of People's Deputies, by P. Dondob, 6 pp, (pp 42-44).

Discussion of Questions Concerning Stages and Prevention of Crime, by D. Dashdemberel, 8 pm, (np 45-48).

Civil Code on Rights and Obligations of Children and Minors, by D. Horloo, 6 pp, (pp 49-51).

New Statutes for Permanent Committees of Local Murals of People's Deputies, by D. Damdinsuren, 6 pp. (pp 67-69).

Lever for Success of Public Organization, by Ts. Jambalsuren, 7 pp. MONGOLIAN, per, Namyn Am'dral, No 7, Jul 1963, pp 38-40. JPRS 21544

Some Ideas About Literary Teaching in Universities, by Hoang Mhu Hai, 11 pp.

VIETNAMESE, per, Hoc Tap, No 10, 1963, np 49-55, JPRS 21906

Maintain Vigilance Against the Tito Clique, by Trong Nghia, 11 pp.

VIETNAMESL per, Hoc Tan, No 10, 1963, pp 73-79. JPRS 21906

Using the Language of the People in Universities, by Ta Quang Buu, 5 pp.
VIETNAMESE, np. Nhan Dan, 22 Aug 1963, p 3.

VIETNAMESE, np, Nhan Dan, 22 Aug 1963, p 3. JPRS 21500

Exchange of Views on Phu Thang's Novel, Raising the Siege, $6~\rm pp.$

VIETTAMEST, np. Quan Doi Man Dan, 15 Aug 1963. JPRS 21599

Let Us Raise the Effect of Art and Literature in the Struggle for Independence and Socialism, by Pham Van Dong, 7 pp.

VIETNAMESE, np, Van Mghe, 2 Aug 1963.

LATIN AMERICA

Economic

The Paulo Afonso Power Station Gives a Shot in the Arm to the Northeast, 13 pp. PORTUGUESE, per, Visao, No 4, 1963, pp 18-21. (Eng Tr)

Army Map Service

The Economy: In the Plans There Will Be No Shortage of Electricity, 8 pp. PORTUGUESE, per, Visao, No 5, 1963, pp 22-24. (Eng Tr)

Army Map Service

Labor and Production Problems During the 1963 Sugar Cane Harvest, by Alfredo Memendez Cruz, 19 pp. SPANISH, per, <u>Cuba Socialista</u>, No 7, 1963, pp 11-28.

JPRS 21709

Cuban Conference on Agricultural Production, by Rafael Francia Mestre, 6 pp. SPANISH, per, Cuba Socialista, No 7, 1963, pp 45-50.

JPRS 21709

Other Assistance to Victims, 5 pp. SPANISH, np, Hoy, 13 Oct 1963, p 3.

JPRS 21902

Regulations on Turning in Worn-Out Paper Money, 6 pp. SPANISH, np, <u>El Mundo</u>, 28 Sep 1963, pp 1, 5.

JPRS 21709

Operation of Hanabanilla Hydroelectric Power Plant, by Nestor R. Saslavsky, 44 pp. SPANISH, per, Nuestra Industria- Revista Technologica, Vol II, No 7, 1963, pp 4-31.

JPRS 21753

Political

Latin American Communism and the Moscow-Peiping Dispute, by Branko Lazitch, 8 pp. FRENCH, per, Est & Quest, No 306, 1-15 Oct 1963, pp 6-10.

JPRS 21765

Pro-Communist Brazilian Weekly Discusses Brazil and Peaceful Coexistence, 6 pp. PORTUGUESE, per, O Semanario, Vol VIII, No 351, 19-25 Sep 1963, p 3.

JPKS 21841

The Fundamental Part of Revolutionary Propaganda, by Cesar Escalante, 11 pp. SPANISH, per, <u>Cuba Socialista</u>, No 9, 1963, pp 18-31.

JPRS 21709

Latin America Political (Contd)

....

Concerning People's Courts, 13 pp. SPANISH, per, Cuba Socialista, No 24, Aug 1963, pp 40-50.

JPRS 21669

*(- * *

Purs Reconstruction in the Oriente Mountains, 6 pp. SPANISH, per, Cuba Socialista, No 24, Aug 1963, pp 115-119.

JPRS 21669

Uruguayan Communist Daily Criticizes Chinese Line, SPANISH, np, El Popular, 1 Oct 1963, p 3.

JPRS 21841

Chilean Communist Party Chief Corvalan on Coexistence, by Luis Corvalan, 6 pp. SPANISH, np, El Siglo, Vol XXIV, No 3906, 29 Sep 1963, p 5.

JPRS 21841

Geographic

Costa Rica - A Contribution on Its Orography and Hydrography, by Henri F. Pittier, 57 pp. GERMAN, rpt, Kostarika Beitrage zur Orographie und Hydrographie, Sections I, II, 20 Jul 1912, pp 7-39.

ACSI I-2289 ID 2229407

Air Photography Rediscovers Chile, by M. S. Morris, 7 pp. SPANISH, per, Ingenieria Internacional Construccion, Vol LI, No 4, 1963, pp 32-35. (Call No TA4 145 V 51 No 4 Eng Tr)

Army Map Service

Sociological

Science Developing in Cuba, by Yang Lien-kuei, Lin Jung, 11 pp. CHINESE, per, K'o-hsueh T'ung-pao, 17 Aug 1963, pp 6-9.

JPRS 21608

Training Plan for Cuban Hospitals, by Ariel Rojas,

SPANISH, np, Sierra Maestra, 8 Jun 1963, p 5. JPRS 21902

WORLD WIDE

Political

| Index of Le Monde, 54 pp. FRENCH, np, Le Monde, No 41, 1-30 Sep 1963. | JPRS | 21638 |
|--|------|-------|
| Hard and Soft in World Politics, by Franz Marek, 9 pp. GERMAN, per, Weg und Ziel, No 10, 1963, pp 634-643. | JPRS | 21876 |
| The International Communist Conflict, by G. Glezerman, 9 pp. RUSSIAN, np, Pravda, 11 Sep 1963, pp 3, 4. | JPRS | 21325 |

SCIENTIFIC

The second second is the consequence of the second second

Aerospace

Flying Apparatuses Today and Tomorrow, by V. Myasishchev, 12 pp. RUSSIAN, rpt. 9687674

FTD-TT-63-890

Engines for Interstellar Ships, by R. G. Perel man, 240 pp.

RUSSIAN, bk, Dvigateli Galakticheskikh Korabley, Moscow, 1962, pp 1-199. 9687678-V

FTD-TT-63-92

Application of Galerkin's Method in Designing an Airplane Wing Against Flutter, by O. I. Lotkin, 11 pp.
RUSSIAN, bk, Institut Mekhaniki Ak Nauk Soyuza

RUSSIAN, bk, Institut Mekhaniki Ak Nauk Soyuza SSR, Inzhenernyy Sbornik, Vol VI, 1950, pp 153-160. 9687669

FTD-TT-63-739

Space Medicine, by Fedor Dmitriyevich Gorbov, Aleksey Aleksandroich Koreshkov, 49 pp. RUSSIAN, bk, Kosmicheskaya Meditsina, Moscow, 1963, pp 3-54.

JPRS 21586

Rocket Guidance, by V. P. Petrov, A. A. Sochivko. (DC-10051)
RUSSIAN, bk, Upravleniye Raketami izd Vtoroye,
Moscow, 1963, pp 3-263.

*JPRS

Control of Reaction-Thrust Missiles, by G. D. Krysenko, 309 pp.
RUSSIAN, bk, Upravleniye Reaktivnymi Snaryadami, Moscow, 1960, pp 1-264. 9688865-V

FTD-TT-62-908

Selected Articles From the Russian Book V Kosmose, Sbornik Statey, Attch to IR 15057 62.

*FTD-TT-63-1041

How the Second Sputnik is Laid Out, (pp 42-46).

The Second Sputnik, by Yu. A. Povedonostsev, (pp 49-54).

Flying Space Laboratory, by L. I. Sedov, (pp 66-68).

Life on a Sputnik, by P. Isakov, (pp 214-223).

Man Before the Start Into Space, by Ye. Yugov, A. Serov, (pp 224-229).

Flight to Mars Becomes Practicable, by L. I. Sedov, (pp 234-238).

Artificial Earth Satellites and the Problems of Space, by N. P. Barababshov, (pp 259-264).

Scientific Aerospace (Contd)

| Aerospace (Contd) | |
|--|-----------------|
| Selected Articles From the Russian Book V Kosmose, Sbornik Statey, Attch to IR 15057 62. (Contd) | *FTD-TT-63-1041 |
| From the Earth to the Moon, by A. G. Masevich, (pp 272-275). | |
| From the Moon to the Earth, by P. I. Yevdokimov, (pp 284-288). | |
| The First Flight to the Moon, (pp 291-299). | |
| Inanimate Astronaut, by B. S. Danilin, (pp 376-380). | |
| What Cosmonauts No. 5 to 10 Are Talking About, | |
| 5 pp. RUSSIAN, per, Aviats I Kosmonavt, Vol V, No 1, 1963, p 11. 9687635 | FTD-TT-63-829 |
| A Necessary and Sufficient Condition for Metrizability of a Topological Space, by Yu. Smirnov. | |
| RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXVII, No 2, 1951, pp 197-200. | *NASA TT F-192 |
| Effect of Atmospheric Turbulence on an Airplane With Flexible Wings at Different Speeds of Flight, by Yu. M. Romanovskiy, S. P. Strelkov, 15 pp. | |
| RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1959, pp 3-10. 9687661 | FTD-TT-63-750 |
| Rocket Testers-Researchers, by N. Gorbachev, 7 pp. | |
| RUSSIAN, np. <u>Krasnaya Zvezda</u> , No 164, 1962, p 3. 9687637 | FTD-TT-63-717 |
| Four-Day Space Flight of the Vostok-3, by A. Nikolayev, 5 pp. | |
| RUSSIAN, per, Kryl'ya Rodiny, No 5, 1963, pp 3-5. | JPRS 21146 |
| Female Cosmonauts Join the Training, 5 pp. RUSSIAN, np, Sovet Kirgiziya, 8 Aug 1963, p 4. | JPRS 21829 |
| Magnetic Armor Protects Against Cosmic Showers, | |
| by V. Zaytsev, 10 pp. RUSSIAN, per, Tekh Molodezhi, No 3, 1963, pp 35-37. 9687648 | FTD-TT-63-760 |
| | |

Scientific Aerospace (Contd)

Studying the Psychological Aspects of Man's Reliable Functioning in Cosmic Flight, by M. I. Bobneva, 21 pp.
RUSSIAN, per, Voprosy Psikhologii, No 2, 1963, pp 173-180. 9687673

FTD-TT-63-761

Navy; Utilization of the Helicopter in the Navy, 6 pp.
FRENCH, per, Le Bulletin d'Information de la Marine National, 22 Aug 1963, Encl to USNA, Paris, France.

NAVY 5832021263

Europe and Space, 96 pp. FRENCH, per, L'Homme et L'Espace, No 16, 1963, pp 7-44.

JPRS 21879

Piloting Errors and Aircraft Instruments, by Jean Israel, 9 pp. FRENCH, per, Technique et Science Aeronautiques et Spatiales, May-Jun 1962, pp 203-208. 9689185

DDC RSIC-89

French Ambitions in Space.
FRENCH, per, <u>Transmondia</u>, No 105, Jun 1963, pp 89-91.

*ACSI I-3644 ID 2251717

The Development of the Space Potential According to the Spherical Harmonics, by F. Hopfner. GERMAN, bk, Die Entwicklung des Raumpotentials Nauch Kugelfunktionen.

ACIC

The Flying Crane, by Karl-Dieter Seifert, 5 pp. GERMAN, per, Aerosport, No 4, 1963, pp 148,149. 9687679

FTD-TT-63-801

Sport Aviation in the Chinese People's Republic, by Yerzy R. Konieczny.
POLISH, per, Wojskowy Przelad Lotniczy,
No 5, 1963.

ACIC

Valeriy Bykovskiy and Valentina Tereshkova - The New Cosmic Tandem, by Florin Zaganescu, 8 pp. RUMANIAN, per, Stiinta si Tehnica, Vol XV, No 7, 1963.

JPRS 21613

Scientific Agriculture

| Successes of the Pobeda Kolkhoz, by N. Perekalina, 5 pp. RUSSIAN, np, Ekon Gazeta, No 36, 7 Sep 1963, p 32. | JPRS 21820 |
|---|---------------------------|
| On the Specialization and Cooperation of Kolkhozes, by V. Karalyun, 9 pp. RUSSIAN, per, Kommunist Sovetskoy Latvii, No 7, 1963, pp 41-48. | JPRS 21820 |
| A Program of Aid for Lagging Farms, by P. Kozyr', 5 pp. RUSSIAN, np, Pravda, 2 Sep 1963, p 2. | JPRS 21820 |
| The Growth of Agricultural Production in the Estonian SSR, by A. Karu, 5 pp. RUSSIAN, np, Sovet Estoniya, 16 Aug 1963, pp 2, 3. | JPRS 21820 |
| The Utilization of Radioactive Isotopes in Determining the Efficiency of Spraying Farm Crops With Pesticides, by S. V. Andreyev, B. K. Martens, et al. RUSSIAN, per, Vest Sel'skokh Nauk, No 4, 1963, pp 135-138. 9213197 | USDA Tr A-1405 |
| A New Method in Grapevine Nuseries, by I. Ivanyutin. RUSSIAN, per, Vinodelie i Vinogradarstvo SSR, Vol VI, No 213, 1962, pp 50, 51. | CSIRO/No 6329 |
| The Mechanization of Agriculture is Essential to Its Growth, by L. Korbut, 8 pp. RUSSIAN, per, Voprosy Ekon, No 8, 1963, pp 89-95. | JPRS 21820 |
| A Perfection of Prices for the Basic Agricultural Products, by L. Kassirov, 20 pp. RUSSIAN, per, Voprosy Ekon, No 8, 1963, pp 96-109. | JPRS 21820 |
| Some Problems of Agricultural Mechanization in the Development of Agriculture, by Aleko Aleksi, 8 pp. ALBANIAN, per, Rruga e Partise, No 9, 1963, pp 24-31. | JPRS 21900 |
| Issues Involving Crop Rotation in the Kuan-chung Area, by Yang Chun-feng, 18 pp. CHINESE, per, Chung-kuo Nung-yeh, No 4, 1963, pp 9-14. | JPR5 21930 |
| Enzyme Production and Its Use in the Food Industry, by Mihajlo Mautner, 10 pp. CROATIAN, per, Tehnika, No 10, 1962, pp 133-136a. | ACSI I-2600 ID 2232483 |

Scientific Agriculture (Contd)

Use of Area With Concentrated Feed, by J. Gottfried, V. Bulena, et al., 7 pp.
CZECH, per, Agrochemie, No 8, 1963, pp 141, 142.

JPRS 21812

Method of Statistical Stocktaking in High Country, by G. Chauvin.
FRENCH, per, Revue Forestiere, No 11, 1962, pp 919-930.

NZDIA

Accuracy of Tree Height Measurements by Means of the Blume-Leiss Altimeter, by P. Abetz, O. Merkel. GERMAN, per, Allgemeine Forst und Jagdzeitung, No 12, 1962, pp 277-285.

NZDIA

Large Douglas Fir Timber Trees. Possibilities and Prospects of Future Sales and Returns With Different Types of Sawing, by H. H. Hilf, H. Maisenbacher. GERMAN, per, Forstarchiv, Vol XXXIII, No 1, 1962, pp 1-12.

NZDIA

Selected Articles From the German Periodical Hols Als-Roh-und Werkstoff.

Vol XIX, No 9, 1961. Optical and Electron-Microscopic Investigations of the Growth of Blue Stain Fungi in Pine and Spruce, by W. Liese, R. Schmid, (pp 329-337).

GB/39/PVM131/

N205

Investigations on the Formation of Blue Stain on Lacquered Wood Surfaces, by H. Butin, (pp 337-340).

GB/39/PVM131/ A/207

Vol XX, No 5, 1962. Chemical Examination of an Unknown Pterocarpus Wood, by R. Narayanan, P. Rao, (pp 182-185).

CSIRO/No 6281

On the Stress in a Single Step Joint, by E. Krabbe, (pp 189-195).

CSIRO/No 6282

Crop Farming in a Socialist Agricultural System, by O. Choijilsuren, 6 pp.
MONGOLIAN, per, Ediyn Dzasag Erhiyn Asuudal, No 4,
1963, pp 242-246.

JPRS 21851

Progress in Silvicultue by the Forestry Research Institute, by D. Ivanescu, 11 pp. RUMANIAN, per, Revista Padurilor, Vol LXXVIII, No 8, 1963, pp 431-434.

JPRS 21626

Influence of Some Variables on the Defibrarability of Dried Paper Pulps, by A. Teder. SWEDISH, per, Svensk Paperstidning, Vol LXV, No 24, 1962, pp 991-1000.

CSIRO/No 6345

Odd Mass Nuclei in Vibrational Region, by Kazuo Hisatake, 32 pp.
RUSSIAN, rpt, JAERI 1020, Mar 1962.

AEC-NP-Tr-1059

Reference Book on Medical Instruments, by A. G. Kreyster. RUSSIAN, bk, Moscow, 1962, Attachment to IR 1 523 1087 63.

*FTD-TT-63-1059

The White Sea and the Biological Characteristics of Its Flora and Fauna, by V. V. Kuznetsov, 39 pp. RUSSIAN, bk, Beloe More i Biologicheskiye Osobennosti Yego Flory i Fauny, 1960, pp 40-44, 69-90.

Navy Tr 3593

HO 172

Bionics, by A. I. Prokhorov, 80 pp. RUSSIAN, bk, Bionika, Moscow, Vol IX, No 7, 1963, pp 1-56. 9688776

FTD-TT-63-557

Peculiarities in Methods of Sugar Beet Selection in the USSR and in Foreign Countries, by N. A. Negovskiy. RUSSIAN, bk, Dostizheniya Nauki i Peredovoi Opyt po Sveklovodstvu, Ukrayinska Ak Sil'skoh Nauk, 1961, pp 200-205.

*USDA

Physiology and Pathology of Blood Circulation, by V. V. Parina, 196 pp. RUSSIAN, bk, Fiziologiya i Patologiya, Moscow, 1962, pp 1-163. 9687677-V

FTD-TT-63-295

Neurohumoral Mcchanisms of Radiation-Induced Permeability Disorders of the Histohematic Barrier, by L. S. Shtern, M. M. Gromakovskaya, et al., 28 pp. RUSSIAN, bk, Gisto-Gematicheskiye Bar'yeri i Ioniziruyushchaya Radiatsiya, Moscow, 1963, pp 17-38, 216.

JPRS 21492

Compounds Used in the Elimination of Radioactive Substances in the Organism, by A. A. Rubanovskaya, 13 pp.
RUSSIAN, bk, Materialy po Toksikologii
Radioaktivnykh Veshchestv, 1962, pp 160-169.

JPRS 21511

Effect of Radiation on Hereditary Molecular Structure, by N. P. Dubinin, 33 pp. RUSSIAN, bk, Molekulyarnaya Genetika i Deystviye Izlucheniy na Nasledstvennost, Moscow, Chapter II, 1963, pp 171-193.

JPRS 21754

| Biological & Medical Sciences (Contd) | |
|--|------------------------|
| Reactions of the Chemical Effect of Ultrasonics on Water and Watersoluble Substances, by M. S. Levinson, 7 pp. RUSSIAN, bk, O Khimicheskom i Biologicheskom Deystvii Ul'trazvuk, Krasnoyarsk, 1962, pp 74-81. | JPRS 21590 |
| Reactions of Yeast Cells to Ultrasonic Action, by | |
| G. S. Komolova, 6 pp. RUSSIAN, bk, 0 Khimicheskom i Biologicheskom Deystvii Ul'trazvuk, Krasnoyarsk, 1962, pp 156-163. | JPRS 21590 |
| Particularly Dangerous Infectious Diseases and Infectious Diseases With Natural Focalization, by N. I. Nikolayev, et al., 343 pp. RUSSIAN, bk, Osobo Opasnyye i Prirodnoochagovyye Infektsii, Moscow, 1962, pp 1-272. | JPRS 21475 |
| Selected Articles From the Russian Book Pervichnaya Produktsiya Morey i Vnutrennikh Vod, 1961. | |
| The Role of Primary Production in Solving Problems of Hydrobiological Processes and the Means of Controlling Them, by V. I. Zhadin, 5 pp, (pp 7-10). | Navy Tr 3599 HO 199 |
| The Dependence of Primary Production on the Composition of Phytoplankton, by I. L. Pyrina, 7 pp, (pp 308-313). | Navy Tr 3601 HO 201 |
| The Current as a Factor Determining the Development of Phytoplankton in Water Basins, by A. D. Priymachenko, 5 pp, (pp 314-318). | Navy Tr 3602 HO 202 |
| Chapter III. The Effect of Radioactive Contamination on the Sanitary Conditions of Open Reservoirs, by A. N. Marey, 55 pp. RUSSIAN, bk, Radiatsionnaya Gigiyena, Vol II, | |
| Kommunal'naya Gigiyena, Moscow, 1962, pp 34-67. | JPRS 21799 |
| Chapter VI. The Behavior of Radioactive Substances in Soils and Their Migration in Terrestrial Flora and Fauna, by A. N. Marey, 29 pp. RUSSIAN, bk, Radiatsionnaya Gigiyena, Vol II, Kommunal naya Gigiyena, Moscow, 1962, pp 109-126. | JPRS 21799 |
| Distribution of Radioisotopes in Basic Components of Fresh-Water Bodies, by Yelena Aleksandrovna Timofeyeva-Resovskaya, 102 pp. | |
| RUSSIAN, bk, Raspredeleniye Radioizotopov po Osnovnym Komponentam Presnovodnykh Vodoyemov, No 30, 1963, pp 1-79. | JPRS 21816 |
| | |

Results of Barley Selection, by N. D. Mukhin, V. A. Semenov.
RUSSIAN, bk, Sbornik Nauch Trudov, Belorusskii Nauch-Issled Inst Zemli, Vol VII, 1961, pp 299-305.

*USDA

Advances in Biochemistry.
RUSSIAN, rpt, Symposium on Advances in Biochemistry, Vol IV, 1962.

*FTD-TT-63-1083

The Techniques and Methods of Conducting
Physiotherapeutic Procedures, by K. F. Grishina,
A. A. Komarova, 46 pp.
RUSSIAN, bk, Tekhnika i Metodika Provedeniya
Fizioterapevticheskikh Protsedur, Leningrad,
1963, pp 101-106; 115-118; 126-134; 160-169; 176-202;
317-320.

JPRS 21725

Selected Articles From the Russian Book Trudy Simpoziuma po Anesteziologii, Moscow, 1963.

JPRS 21659

Potentiated Analgesia, by V. V. Zakusov, 6 pp.

Neuroplegia in Anesthesiology, by I. S. Zhorov, 11 pp.

Table of Contents of Transactions of the Symposium on Amesthesiology, 6 pp.

Breeding Proso, by M. N. Shumkova.
RUSSIAN, bk, Trudy Tatarskaya Respublika
Gosudarstvennaya Sel'skokhozyaistvennaya Opythaya
Stantsiya, Vol I, 1961, pp 105-120.

*USDA

Transactions of the Tomsk Scientific Research Institute of Vaccins and Serums of the Ministry of Public Health USSR, by V. M. Popov.
RUSSIAN, bk, Trudy Tomskiy Nauchno-Issledovatel'skiy Institut Vaktsin i Syvorotok Ministerstva Zdravookhraneniya SSR, Vol XI, 1960, 327 pp.

*FTD-TT-63-1082

Regeneration of Lost Organs, by L. D. Lyozner, 160 pp.
RUSSIAN, bk, Vosstanovleniye Utrachennykh Organov, Moscow, 1962, pp 1-141. 968862

FTD-TT-63-576

Proper Feeding of Tumor Patients During Radiation Treatment, by K. A. Skulme, 78 pp. RUSSIAN, bk, Znacheniye Faktora Pitaniya v Profilaktika Luchevoy Bolezni, Riga, Vol XXVIII, 1962, pp 171-243, 255, 256.

JPRS 21588

Ristomycin, A New Antibiotic for Intravenous Injection; Study of Its Clinical and Physiological Effects on Patients With Severe Infections, by I. G. Rufanov, Ye. A. Govorovich, et al, 5 pp. RUSSIAN, per, Antibiotiki, Vol VIII, No 9, 1963, pp 836-839.

JPRS 21802

Effect of Denervation Upon the Glucolytic Processes in the Muscles, by S. E. Epel'baum, L. F. Kantor. RUSSIAN, per, Biokhim, Vol XIX, 1954, pp 660-665.

GB/262

On the Natural Radioactivity of the Leaves of Some Woody Species, by N. N. Alfimov, P. N. Yagovoy, et al.

RUSSIAN, per, Botan Zhur, Vol XLVIII, No 5, 1963, pp 724-726. 9214097

USDA Tr A-1407

Effect of Treatment of Maize Seeds With Trace Elements and Succinic Acid on the Yield, by K. Sagatov.
RUSSIAN, per, Botan Zhur, Vol XLVIII, No 8, 1963, pp 1151-1160.

*USDA

For Further Success in the Field of Experimental Biology and Medicine.

RUSSIAN, per, Byul Eksper Biol i Meditsiny,

Vol LV, No 5, 1963, pp 3, 4. 9212626

USDA Tr A-1402

Body Reactions to Long-Lasting Coriolis Accelerations, by N. I. Arlashchenko, B. B. Bokhov, et al, 7 pp. RUSSIAN, per, Byul Eksper Biol i Meditsiny, Vol LVI, No 8, 1963, pp 28-32.

JPRS 21908

Changes in the External Respiratory System, by A. S. Barer, G. A. Golov, et al, 7 pp. RUSSIAN, per, Byul Eksper Biol i Meditsiny, Vol LVI, No 8, 1963, pp 33-37.

JPRS 21908

Selected Articles From the Russian Periodical Dok Ak Nauk SSSR.

| _ | - | |
|---|---|---------------|
| | Vol CXLVIII, No 4, 1963, pp 935-938. 9687666 Comparative Investigation of the Formulation of Pheophytines From Chlorophyll and Its Analogues in Darkness and Upon Illumination, by A. A. Krasnovski, Ye. V. Parshina, 8 pp. | FTD-TT-63-866 |
| | Vol CL, No 6, 1963. Investigation of Intermolecular Electron Transfer in Tetrapyrrole Pigments During Pulsed Illumination, by P. A. Shakhverdov, A. N. Terenin, 6 pp, (pp 1311-1314). | JPRS 21519 |
| | Role of Energy Metabolism in Restoration of Irradiated Cells, by L. A. Seliverstova, M. N. Meysel, 5 pp, (pp 1366-1369). | JPRS 21619 |
| | Characteristics of the Appearance of the Activation Reaction of the EEG Under the Action of Light, by S. A. Karazina, 6 pp, (pp 1397-1400). | JPRS 21522 |
| | Vol CLI, No 3, 1963. Study of the Mitotic Cycle of Bone Marrow Cells in Mice by the Autoradiographic Method, by A. I. Zosimovskaya, 7 pp, (pp 687-690). | JPRS 21629 |
| | The Influence of Rapana Bezoar Linne, Mollusca Muricidae, on Black Sea Fauna, by Ye. I. Drapkin, 6 pp, (pp 700-703). | JPRS 21627 |
| | The Permeability of the Hematoencephalic Barrier to Inorganic Phosphate in Acute Radiation Sickness, by D. A. Chetverikov, S. V. Gasteva, 6 pp, (pp 718-721). | JPRS 21628 |
| | Callus Formation in Certain Shrubs and Woody Plants Investigated by the Method of Tissue Culture in Vitro, by E. A. Bychenkova, (pp 732-736). | *USDA |
| | Vol CLI, No 5, 1963, pp 1222-1224. Electron Microscopic Study of Sunflower Seeds and the Accumulation of Reserve Substances, by I. N. Sveshnikova, Yu. P. Bolyakina, 5 pp. | JPRS 21733 |
| | | |

Selected Articles From the Russian Periodical Eksper Khir i Anesteziol.

| <u> </u> | |
|---|------------|
| No 4, Jul, Aug 1963. A Cybernetic Method of Determining the Severity and Prognosis of Burn Injury, by A. A. Vishnevskiy, S. N. Braynes, et al, 5 pp, (pp 3-6). | JPRS 21680 |
| A Comparative Study of the Effect on the Organisms of Experimental Thermal Injury and Removal of a Large Area of Skin, by N. I. Kochetygov, 5 pp, (pp 6-9). | JPRS 21680 |
| Functional Characterization of the Course of Burn Shock Against a Background of Radiation Injury, by V. A. Suvorov, B. A. Saakov, et al., 5 pp, (pp 10-12). | JPRS 21680 |
| Ascorbic Acid Content in a Subcutaneous Skin Autograft, by M. D. Kiverin, Z. I. Kiverina, 7 pp, (pp 15-19). | JPRS 21722 |
| The Use of Venous Autografts Encased in Perlon for Experimental Plastic Surgery of Peripheral Arteries, by Yu. G. Shaposhnikov, 7 pp, (pp 42-46). | JPRS 21722 |
| Operations on the Open Heart With Selective Cerebral Hypothermia, 6 pp, (pp 55-58). | JPRS 21761 |
| Experimental Intramuscular Morphine-Hexenal Anesthesia, by S. A. Gasparyan, R. A. Toshchakov, 6 pp, (pp 83-86). | JPRS 21761 |
| No 5, Sep, Oct 1963. Synthesis of Cellulose Derivatives and Experimental Assay of the Products Obtained for Possible Application to Surgical Practice, by Al. A. Lopatenok, An. A. Lopatenok, et al, 10 pp, (pp 21-28). | JPRS 21913 |
| The Use of Interference Currents in Combined Anesthesia in Surgical Operations, by M. I. Kuzin, V. D. Zhukovskiy, et al, 6 pp, (pp 57-60). | |

Soviet Short-Acting Agents for Controlled Hypotension, by Λ . D. Panashchenko, 5 pp, (pp 75-78).

The Role of Pharmacology in the Development of Medical Science, by G. N. Pershin, 5 pp. RUSSIAN, per, Farmakol i Toksikol, Vol XXVI, No 4, Jul, Aug 1963, pp 403-405. JPRS 21512 Disposal of Waste Water Contaminated With Radioactive Matter, by A. T. Avdonin, 9 pp. RUSSIAN, per, Gig i San, Vol XXVIII, No 8, 1963, JPRS 21679 pp 14=19. An Outbreak of Salmonella Paratyphi C Feed Poisoning, by R. A. Timomeyeva, E. V. Yakutina. RUSSIAN, per, Gig i San, Vol XXVIII, No 8, 1963, pp 73, 74. 9214095 USDA Tr V-1862 The Toxicology of Medicine, by L. A. Bandurina, RUSSIAN, per, Gig Truda i Professional Zabol, Vol VII, No 6, 1963, pp 61-63. JPRS 21800 Clinical Study and Classification of Occupational Diseases of the Peripheral Nerves and Muscles, by G. N. Mazunina, 10 pp. RUSSIAN, per, Gig Truda i Professional Zabol, Vol VII, No 7, 1963, pp 3-8. JPRS 21785 Effectiveness of Electric Sleep Treatment in Certain Occupational Diseases, by S. P. Shatrova, 7 pp. RUSSIAN, per, Gig Truda i Professional Zabol, Vol VII, No 9, 1963, pp 45-47. JPRS 21712 Diagnosis of Subvalvular Stenosis of the Aorta, by M. V. Murav'yev, Yu. S. Petrosyan, 10 pp. RUSSIAN, per, Grudnaya Khirurgiya, No 3, 1961, NIH 10-19-63 pp 7-12. Production: Vita. RUSSIAN, per, Izobretatel' i Ratsionalizator, No 5, *ACSI I-3685 1963, pp 11-13. ID 2251733 The Effect of Aeroions of Different Polarities on the Change of Complement Titer, by G. K. Trofimov, 6 pp. RUSSIAN, per, Iz Ak Nauk Kazakh SSR, No 2, 1963, JPRS 21777 pp 63-72. The Effect of Acroions of Different Polarities on the Outcome and Pattern of Anaphylactic Shock in

JPRS 21777

Rabbits, by G. K. Trofimov, 5 pp.

pp 73-77.

RUSSIAN, per, Iz Ak Nauk Kazakh SSR, No 2, 1963,

Selected Articles From the Russian Periodical Iz Ak Nauk SSSR, Ser Biol.

| Iz Ak Nauk SSSR, Ser Biol. | |
|---|-----------------|
| No 2, 1963. New Free Living Nitrogen Fixating Microorganisms, by N. P. Lvov, (pp 270-282). | *FTD-TT-63-1010 |
| Second Scientific Conference on Plant Nucleic Acids, by V. G. Konarev, (pp 331-334). 9212627 | USDA Tr A-1403 |
| No 4, 1963. Immediate Problems of Helminthological Science and Practice at the Present Historical Stage 1, by K. I. Skryabin, 8 pp, (pp 497-503). | JPRS 21778 |
| Some Problems of Immunity in Helminthology, by N. P. Shikhobalova, Ye. S. Leykina, 15 pp, (pp 504-513). | JPRS 21778 |
| On Some Problem of Bioenergetics, by V. N. Zholkevich, 14 pp, (pp 562-573). | JPRS 21501 |
| Use of Heterosis in Buckwheat Breeding, by G. V. Pryezzhev. RUSSIAN, per, Iz Timiryazevskaya Selskokh Ak, Vol XLVI, 1962, pp 47-58. | *USDA |
| Application of New Soviet Ganglion-Blocking Preparations in Surgical Practice, by V. P. Radushkevich, L. F. Kosonogov, et al., 10 pp. RUSSIAN, per, Khirurgiya, Vol XXXIX, No 7, 1963, pp 13-19. | JPRS 21857 |
| Combined Effect of Different Ganglion-Blocking Preparations in the Creation of a Cholinergic Block in Anesthesia, by N. A. Dol'nikov, 12 pp. RUSSIAN, per, Khirurgiya, Vol XXXIX, No 7, 1963, pp 43-49. | JPRS 21857 |
| Effect of Various Sizes of Planting Area on Development of Root System and Growth of Pine on Sandhills, by Ch. Tszyan ¹ . RUSSIAN, per, Lesnoye Khoz, Vol II, 1962, pp 41, 42. | CSIRO/No 6220 |
| Nominations to the USSR Academy of Medical Sciences, 8 pp. | |

RUSSIAN, np, Medit Gazeta, 18 Oct 1963, p 4. JPRS 21843

Biology of Anopheles Maculipennis in the North, by N. Ya. Markovich, 29 pp. RUSSIAN, per, Medit Parazitol i Parazitarnyye Bolezni, Vol VIII, No 1, 1939, pp 89-108. NIH 9-13-63 Polymeric Therapeutic Compounds, by S. M. Ushakov, 20 pp. RUSSIAN, per, Medit Prom SSSR, Vol XVII, No 8, 1963, pp 5-13. JPRS 21480 Use of Marrow Suspension in Superlethal Radiation Affections, by K. N. Muksinova, 7 pp. RUSSIAN, per, Medit Radiolog, Vol VIII, No 2, 1963, pp 25-28, 9687675 FTD-TT-63-596 Development of Biological Sciences and Prospects for Development of Radiobiology, by Ye. I. Vorob'yev, L. V. Funshteyn, 6 pp. RUSSIAN, per, Medit Radiolog, Vol VIII, No 9, 1963, pp 3-7. JPRS 21868 The Second Meeting of the All-Union Microbiological Society, by A. B. Lozinov. RUSSIAN, per, Mikrobiolog, Vol XXXII, No 4, 1963, pp 740, 741. *USDA Microbiological Investigation of Some Peats of the Ukrainian SSR, by V. G. Dudchenko, 8 pp. RUSSIAN, per, Mikrobiolog Zhur, Vol XXV, No 4, 1963, pp 34-39. JPRS 21623 Crimean Wonder - Automated Poultry Farm, by S. Novikov. RUSSIAN, per, Nauka i Zhizn', No 6, 1963, pp 24-29. *USDA Use of Ultraviolet Light Traps for Determining the Mosquito Species Composition and Population Numbers, by K. A. Breyev, 33 pp. RUSSIAN, per, Parazitolog Sbornik Zoologicheskogo Inst Ak Nauk SSSR, No 18, 1958, pp 219-238. NIH 9-7-63

JPRS 21620

Proceedings of Conference on Rheumatism in Children, by Ye. A. Nadezhdina, 9 pp.

RUSSIAN, per, Pediatriya, No 8, 1963, pp 98-101.

Relation of Morphology and Engineering, by V. M. Bel'kovich, 22 pp. RUSSIAN, per, Priroda, Vol LII, No 8, 1963, pp 20-30.

JPRS 21817

Chemical Elements and Life, by A. A. Drobkov, 12 pp. RUSSIAN, per, Priroda, Vol LII, No 8, 1963, pp 45-52.

JPRS 21817

Selected Articles From the Russian Periodical Problemy Gematol i Perelivaniya Krovi, Vol VIII.

No 3, 1963, pp 20-26.
The Effect of Cosmic Factors on the Blood System, by N. A. Shulits, 13 pp.

JPRS 21864

No 8, 1963. A Case of Hodgkins Disease Treated With Aurantin, by N. S. Turbina, N. S. Rozanova, et al, 6 pp. JPRS 21910

The Role of Hereditary Factors in the Etiology of Leukemia in Man Familial Leukemia, by V. V. Akkerman, 10 pp.

The Use of the Antinioplastic Antibiotics Olivomycin 16749 and 6613 for the Treatment of Leukemia, by M. S. Dul'tsin, 5 pp.

First Results of the Operation of the Fish Pass at the Volga Hydroelectric Station Named Twenty-Second Congress of the KPSS, by L. M. Nusenbaum. RUSSIAN, per, Rybnoye Khoz, Vol XXXVII, No 11, 1961, pp 13-18.

Dept of Interior QH301 C273 No 378

Application of Decree on Biological Development to Fishing Industry, by P. A. Moiseyev, 7 pp. RUSSIAN, per, Rybnoye Khoz, Vol XXXIX, No 8, 1963, pp 3-9.

JPRS 21837

The Effect of Cobalt Upon the Growth and Hematological Indices of Carp, by F. M. Sukhoverkhov, R. V. Krymova, et al., 7 pp. RUGSIAN, per, Rybnoye Khoz, Vol XXXIX, No 8, 1963, pp 35-38.

JPRS 21837

Effect of Seed Reproduction on the Yield, by G. F. Nikitenko, F. S. Golovko. RUSSIAN, per, Selek i Semen, No 2, 1962, pp 22-26.

*USDA

Cytoplasmic Male Sterility in the Selection and Breeding of Sorghum, by N. S. Kalashnik. RUSSIAN, per, Selek i Semen, No 3, 1963, pp 32-38.

*USDA

Second All-Russian Congress of Surgeons, by N. I. Krakovskiy, 13 pp.
RUSSIAN, per, Sovet Meditsina, No 2, 1963, pp 154-159.

JPRS 21630

Some Problems in the Analysis of the Electrogastrogram and Its Variants in Healthy Persons During Digestion, by L. G. Krasil'nikov, Yu. I. Fishzon-Ryss, 10 pp. RUSSIAN, per, Terapev Arkhiv, Vol XXXV, No 8, 1963, pp 56-62.

JPRS 21925

Certain Characteristics in the Origin of Parasitic Fauna of Fish in New Water Reservoirs, by N. A. Izyumova.

RUSSIAN, per, Trudy Inst Biol Vodokhranilishch, Ak Nauk SSSR, Vol I, 1959, pp 324-331.

*USDA

Tularemia in Kalingrad Province; an Essay on Its Epidemiology, by N. I. Sushkevich, K. N. Tokarevich. RUSSIAN, per, Trudy Inst Epidemiol i Mikrobiol imeni Pastera, Vol XX, 1959, pp 106-123.

*USDA

Tularemia Outbreak of Transmissive Origin in the Vyborg District of Leningrad Province, by N. I. Ul'yanova, V. V. Zakharova.
RUSSIAN, per, Trudy Inst Epidemiol i Mikrobiol imeni Pastera, Vol XX, 1959, pp 124-129.

*USDA

The Biogeographical Boundaries of the Pelagic Zone in the Northern Half of the Pacific Ocean During the Winter of 1958-1959, by K. V. Beklemishev. RUSSIAN, per, Trudy Inst Okeanolog, Ak Nauk SSSR, Vol XLI, 1960, pp 257-265.

Dept of Interior SH11 A429 No 20

Some Peculiarities in the Structure of the Seismosensory System of the Northern Blenniids, Stichaeoidae, Blannioidei Pisces, by V. M. Makushok.
RUSSIAN, per, Trudy Inst Okeanolog, Ak Nauk SSSR, Vol XLIII, 1961, pp 225-269.

Dept of Interior SHI1 A429 No 19

Hybrids of Maize and Teosinte, by F. F. Sidorov, I. K. Sulakov.
RUSSIAN, per, Trudy po Prikladnoi Botan Genetike i Selektsii, Vol XXXIV, No 3, 1962, pp 76-85.

*USDA

Distribution of Pasteurella Tularensis in the Organism of Experimental Animals After Infection Through the Mucous Membrane of Mouth and Eye, by M. S. Drozhevkina.

RUSSIAN, per, Trudy Protivochumnaya Stantsiya, Astrakhan, Vol II, 1958, pp 296-300.

*USDA

Urgent Problems of Cytology.
RUSSIAN, per, Tsitologiya, Vol V, No 3, 1963, pp 261, 262.

USDA Tr A-1400

New Data on Changes in the Cell Substance From Injury and Excitation, by D. L. Rozental, A. S. Troshin, 18 pp.
RUSSIAN, per, Tsitologiya, Vol V, No 4, 1963, pp 365-378.

JPRS 21894

Cytomorphological Study of the Female Gonads of the Coelenterate Polypodium Hydriforme, by Ye. V. Raykova, 18 pp.
RUSSIAN, per, Tsitologiya, Vol V, No 4, 1963, pp 391-403.

JPRS 21899

Physiology of the Appetite, by A. M. Ugolev, V. G. Kassil, 23 pp.
RUSSIAN, per, Uspekh Sovrem Biol, Vol LI, No 3, 1961, pp 352-368.

NIH 9-23-63

Automatic Control of Algae Cultures, by Ye. A. Ivanov, I. V. Aleksandrova, 11 pp. RUSSIAN, per, <u>Uspekh Sovrem Biol</u>, Vol LVI, No 1, 1963, pp 90-97.

JPRS 21610

Current Problems in the Physiology of the Nervous System, by K. A. Lange, 5 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, No 9, 1963, pp 92-94.

JPRS 21737

The Role of the Luminescence Method in the Diagnosis of Some Dermatoses, by E. A. Medvedeva, L. N. Dayneko, 9 pp.
RUSSIAN, per, Vest Dermatolog, Vol XXXV, 1961, pp 17-20.

Patent Office

Electrified Poultry-Raising Undertakings, by R. Slavin.
RUSSIAN, per, Vest Elektroprom, Vol XXXIII, No 9, 1962, pp 26-29.

GB/10/2903

The Growth of Intraspecies Biological Forms of the Arctic Char Salvelinus Alpinus L. of Kamchatka, by K. A. Savvaitova, 9 pp.

RUSSIAN, per, Vest Mosk Univ, Ser VI, Biol Pochvovedeniye, No 1, 1963, pp 17-23.

JPRS 21520

The Quality of Carp Fingerling in a One-Year Culture, by V. A. Movchan, S. I. Strel'nikov. RUSSIAN, per, Vest Sel'skokh Nauk, No 4, 1963, pp 81-84. 9213196

USDA Tr A-1404

To Improve the Training of Agricultural Specialists in the Field of Biology, by V. F. Krasota. RUSSIAN, per, Vest Sel'skokh Nauk, No 6, 1963, pp 2-6. 9212623

USDA Tr A-1399

Selected Articles From the Russian Periodical Veterinariya.

Vol XXXIX, No 12, 1962. Veterinary-Sanitary Measures in the Case of Loose Housing of Animals, by N. G. Ipatenko, (pp 47-52). 9212621

USDA Tr V-1853

Concerning the Problem of Serological Diagnosis of Brucellosis in Cows, by G. A. Kolomakin, K. V. Ivanova, et al, (pp 61, 62). 9212622

USDA Tr V-1854

Committee on Veterinary Affairs of the Council of Labor and Defense and Its Role in the Control of Epizootics in the USSR, by A. M. Dobrokhotov, (pp 60-74). 9213195

USDA Tr V-1858

Vol XL, No 1, 1963. Gratitude of the Cuban Republic, Letter to the Editorial Office, by A. S. Rumsh, (p 84). 9212616

USDA Tr V-1848

Seminar of Veterinary Virology, by D. F. Osidze, M. F. Serov, (pp 89-92). 9212607

USDA Tr V-1839

Vol XL, No 2, 1963. Experiment in Aerosol Immunization of Sheep Against Brucellosis, by A. V. Selivanov, (pp 24-27). 9212608

USDA Tr V-1840

Dogs -- The Source of Spreading of Ovine Brucellosis, by G. G. Cheremisin, (pp 27, 28). 9213191

USDA Tr V-1855

Selected Articles From the Russian Periodical Veterinariya. (Contd)

| eterinariya. (Contu) | |
|--|----------------|
| Vol XL, No 2, 1963. Active Immunization of Sheep Against Pox, by Yu. F. Borisovich, (pp 28-30). 9213193 | USDA Tr V-1856 |
| Chemical Color Reaction for Diagnosis of Hog Cholera, by P. I. Goncharov, V. I. Lesnykh, (pp 73, 74). 9213194 | USDA Tr V-1857 |
| Veterinary Science and Education in Hungary, by E. S. Cherkasskiy, (pp 79-83). 9212620 | USDA Tr V-1852 |
| Vol XL, No 3, 1963. To Improve Methods of Eradication of the Foot-and-Mouth Disease, by A. A. Byoko, (pp 5-9). 9212612 | USDA Tr V-1843 |
| Effect of Identity of Antigenic Characteristics of Epizootic and Industrial Strains of the Foot-and-Mouth Disease Virus in Specific Prophylaxis, by I. A. Rostovtseva, E. L. Salazhov, (pp 17-23). 9212611 | USDA Tr V-1844 |
| Liquidation of the Foot-and-Mouth Disease at the Farms of the Ul'yanovsk Oblast', by P. V. Adaykin, (pp 23-25). 9212613 | USDA Tr V-1845 |
| How We Prevented the Spreading of the Foot-and-Mouth Disease, by N. V. Serov, A. V. Shirokov, (p 26). 9212614 | USDA Tr V-1846 |
| Medicinal-Prophylactic Measures for Treatment of Cattle in Cases of Malignant Foot-and-Mouth Disease, by A. A. Sviridov, (p 27). 9212615 | USDA Tr V-1847 |
| A Case of Malignant Form of the Foot-and-Mouth Disease, by N. P. Lazarev, (p 28). 9212617 | USDA Tr V-1849 |
| Re-Mass Cases of Stachybotrys Alternans Toxicosis in Horses, Letter to the Editor, by V. P. Fesenko, (p 57). 9214093 | USDA Tr V-1860 |
| Experiments on Obtaining Foot-and-Mouth Disease Vaccine From a Virus Cultivated on Tissus Culture, by N. V. Likhachev, S. D. Orlov, et al, (pp 64, 65). 9212618 | USDA Tr V-1850 |
| All-Union Conference for the Control of the Foot-and-Mouth Disease, by A. A. Nechayev, (pp 92-94). 9212619 | USDA Tr V-1851 |

Selected Articles From the Russian Periodical Veterinariya. (Contd)

Vol XL, No 5, 1963. Biological Method of Diagnosis of an Anthrax, by M. F. Akulova, (pp 58-61). 9212609

USDA Tr V-1841

Detection Methods of the Tularemia Pathogen in Feeds, by A. I. Leont'yev, (pp 64-67). 9212610

USDA Tr V-1842

Reunion of Former Graduates, Moscow Veterinary Academy, 1948, by G. Isaychev, A. Trefilov, (pp 91, 92). 9214092

USDA Tr V-1859

Vol XL, No 6, 1963, pp 6-10. 9214094 To Strengthen the Veterinary Service and State Veterinary Control, by A. G. Ginzburg. USDA Tr V-1861

Vol XL, No 7, 1963. Anti-Food-and-Nouth Disease Vaccine, by B. G. Petrenko, et al, (pp 9, 10). *USDA

Foot-and-Mouth Disease Control, by S. K. Vyatkin, (pp 10-12).

Foot-and-Mouth Disease Eradication in Initial Focus, by A. A. Vartanov, (p 12).

Eradication of Hog Cholera in the Omsk Oblast', by K. P. Lobanov, G. F. Epinafov, (pp 25, 26).

Group Vaccination of Piglets With Associated Vaccine Against Hog Cholera and Erysipelas, by I. I. Kulesko, (pp 26-30).

Evaluation of Immunobiological Reactions in Sheep Immunized With the Vaccine of Strain 19, by I. A. Kosilov, (pp 32-34).

Coordination Council for the Control of the Footand-Mouth Disease, by I. Rostovtseva, (pp 87, 88).

Vol XL, No 8, 1963. Eradication of Foot-and-Mouth Disease is an Important Task, by A. L. skomorokhov, (pp 11-14). *USDA

Application of Dry Virus Vaccine Against Foot-and-Mouth Disease, by F. Z. Amfiteyatrov, et al, (pp 15, 16).

Selected Articles From the Russian Periodical Veterinariya. (Contd)

Vol XL, No 8, 1963. Foot-and-Mouth Disease Elimination in the Central Regions, by N. G. Ipatenko, (pp 16, 17).

Passive Immunization Reduces Losses From the Foot-and-Mouth Disease, by N. B. Ezovitov, (pp 18, 19).

Sanitation of the Farm From Leptospirosis of Swine, by E. A. Andriyan, (p 25).

Abortions of Leptospirosis Etiology in Swine, by P. V. Kaymakan, N. I. Kaymakan, (pp 25, 26).

Swine Leptospirosis, by A. I. Ulendeye, (p 26).

Swine Leptospirosis in the Altai Krai, by P. M. Baryshev, (p 26).

About the Susceptibility of Swine to the Leptospira Culture Isolated From the Forest Mouse Apodemus Sylvaticus, by I. Z. Soloshenko, et al, (pp 26, 27).

Utilization of Gamma Globulin for the Prophylaxis of Swine, by Yu. V. Fomin, (p 41).

Change of Pathogenicity of the Foot-and-Mouth Disease Virus in a Prolonged Passaging in Tissue Culture, by V. A. Sergeyev, et al., (pp 71-74).

Concerning the Diagnosis of Anthrax in Cattle and Sheep, by M. N. Kapitanaki, (pp 77, 78).

Vol XL, No 10, 1963. The Study of Abyssinian Vaccine Strains of African Plague in Horses, by M. S. Shaburov, (pp 68, 69).

Virus-Vaccine Against African Plague of Horses, by E. V. Ivanovskiy, V. P. Nazarov, (pp 70-72).

*USDA

*USDA

Selected Articles From the Russian Periodical Vinodeliye i Vinogradarstvo SSSR.

| | |
|---|---------------|
| Vol I, No 208, 1962, pp 32-34. Photosynthesis in Various Kinds of Vine Shoots, by M. Tseitlin, S. Avetisyan. | CSIRO/No 6306 |
| Vol II, No 209, 1962, pp 36-42. Vine Root Systems in Variously Fertilized Stony Soils in the Armenian Soviet Socialist Republic, by A. Minasyan, A. Melkonyan. | CSIRO/No 6307 |
| Vol II, No 213, 1962, pp 29-31. Economic Aspects of Different Methods of Pruning and Topping Grapevines, by A. Mishurenko, N. Nagornyy. | CSIRO/No 6331 |
| Vol VI, No 213, 1962. Large Table Grapes, by I. Aivazyan, A. Ye. Dokuchayeva, (pp 18-21). | CSIRO/No 6332 |
| Our Experience in Obtaining High Yields of Grapes, by V. Kravchenko, (pp 47-50). | CSIRO/No 6330 |
| Results and Prospects of Acclimatization of Fish and Invertebrates to water Bodies of the USSR, 19 pp. RUSSIAN, per, Voprosy Ikhtiologii, Vol III, No 2, 1963, pp 209-221. | JPRS 21749 |
| On the Age and Census Dynamics of the Pacific Pink Salmon Oncorhynchus Gorbusha, Wald., by Yu. Ye. Lapin, 16 pp. RUSSIAN, per, Voprosy Ikhtiologii, Vol III, No 2, 1963, pp 243-255. | JPRS 21783 |
| Conference on Internal Use of Mineral Water in Alimentary and Metabolic Diseases, by V. M. Deryabina, A. G. Saakyan, 9 pp. RUSSIAN, per, Voprosy Kurort Fizioter i Lech Fiz Kultury, No 4, 1963, pp 373-377. | JPRS 21836 |
| Second Scientific Conference on Problems of Climatopathology of Cardiovascular Diseases, by B. I. Soybel', 6 pp. RUSSIAN, per, Voprosy Kurort Fizioter i Lech Fiz Kul'tury, No 4, 1963, pp 377-380. | JPRS 21836 |
| The Frequency of Mouse Myeloid Leucosis Development Depending on the External Radiation Doses, by R. V. Smirnov. RUSSIAN, per, Voprosy Onkologii, No 8, 1962, pp 59-64. | *AEC |

Content Level of Certain Microelements, Iodine, Fluorine, Cobalt, and Copper in Local Food Products of the Altai Mountains, by Kolomiytseva, 5 pp. kUSSIAN, per, Voprosy Pitaniya, Vol XX, No 6, 1961, pp 55-58. NIH 10-24-63 Communist Ideology and Psychology, 8 pp. RUSSIAN, per, Voprosy Psikhologii, No 4, 1963, pp 3-6. JPRS 21744 Symposium on Surgical Treatment of a Coronary Disease, by K. T. Tadzhiyev, 7 pp. RUSSIAN, per, Zdravookhraneniye Tadzhikistana, No 3, 1963, pp 34-37. JPRS 21836 Questions of Physiology and Pathology in High-Altitude Areas, by K. Yu. Akhaedov, O. G. Lorents, RUSSIAN, per, Zdravookhraneniye Tadzhikistana, No 3, 1965, pp 37-39. JPRS 21836 Natural Tularenia Foci in the Khabarovsk Region, by P. V. Abushkevich, et al. kUSSIAN, per, Zhur Hikrobiol, Epidemiol i Immunobiol, No 5, 1963, pp 48-51. *USDA Materials on the Immunization of People With Live Epidemic Typhus Vaccine of Strain E, by N. N. Urakov, 12 pp. RUSSIAN, per, Zhur Hikrobiol, Epidemiol i Immunobiol, Vol XXXIV, No 7, 1963, pp 40-45. :«III 10-1-63 Electromyographic Investigation of Bell's Palsy Victims, by A. K. Popov, 11 pp. RUSSIAN, per, Thur Nevropatol i Psikhiatrii, Vol LXIII, No 9, 1963, pp 1322-1328. JPRS 21918 Report on the Activity of the Kiyevskaya Oblast Scientific Society of Otolaryn, ologists During 1962, 18 pp. RUSSIAN, per, <u>Thur Ushnykh</u>, <u>Nosovykh</u> i Gorlovykh Bolezney, No 1, Jan, Feb 1963, pp 88-96. JPRS 21591 A New Species of Flying Fish From the Western Part of the Pacific Ocean, by N. V. Parin.

Dept of Interior

SH11 A429 No 22

RUSSIAN, per, Zool Zhur, Vol XXXVII, No 9, 1958,

pp 1412-1416.

Families of Fishes New to the Antarctic Communique 3. Pelagic Young of Flatfish, Pisces, Bothidae, off the Antarctic Coast, by A. P. Andryashev.
RUSSIAN, per, Zool Zhur, Vol XXXIX, No 7, 1960, pp 1056-1061.

Dept of Interior SH11 A429 No 21

Procedure for Calculating Production of Planktonic Copepods, by V. N. Greze, 14 pp. RUSSIAN, per, 2001 Zhur, Vol XLII, No 9, 1963, pp 1329-1337.

JPRS 21801

Research on the Oospores of Tobacco Mildew, by Paraskeva Mikhaylova, 5 pp. BULGARIAN, per, Bulgarski Tyutyun, No 1, 1962, pp 9-12.

JPRS 21746

Further Research on the Oospores of Tobacco Mildew, by Paraskeva Mikhaylova, 6 pp. BULGARIAN, per, Bulgarski Tyutyun, No 5, 1962, pp 23-27.

JPRS 21746

China's Economic Fauna - Avifauna, by Cheng Tso-hsin. (DC-10084)
CHINESE, bk, Chung-kuo Ching-chi Tung-wu ChinNiao-lei, Mar 1963, pp 1-656.

*JPRS

The Translocation and Distribution of Photosynthetic Products During the Various Stages of Growth and From the Various Leaves of the Rice Plant, by Shen Gong-mou. CHINESE, per, Acta Agriculturae Sinica, Vol XI, No 1, 1960, pp 30-39.

CSIRO/No 6338

Changes in Photosynthetic Surface Area and Net Rate of Assimilation at Various Stages of the Rice Plant, by S. Shia, et al.
CHINESE, per, Acta Agriculturae Sinica, Vol XI, No 1, 1960, pp 41-47.

CSIRO/No 6339

Some Observations of the Treatment of Late Stage Liver Cancer by Intravascular Perfusion of the Liver With Anticancer Chemicals, by Hsieh Ta-yeh, Wu Ment-ch'ao, et al., 5 pp.
CHINESE, per, Chung-kuo Wai-k'o Tsa-chih, No 7, 1963, pp 514, 515.

JPRS 21587

Table of Toxicity of Organophorus Insecticides to Warm-Blooded Animals.
CHINESE, per, Hua-hsueh Tung-pao, No 1, 1962, pp 31-38.

*ACSI I-3529 ID 2246316 319th MI Bn

- -----

Treatment of Migraine and Episodes of Unconsciousness During the Course of Arterial Hypertension, by Lazar Stanojevic.

CROATIAN, per, Medicinski Glasnik, Vol XVI, No 7, 8, 1962, 366 pp.

*FTD-TT-63-1087

Archives on Transmines Under the Effect of Pre-Medication, Anesthesia and Surgical, by Jiri Minar, Vilem Lahn.

CZECH, per, Acta Universitatis Carolinae - Medica, No 9, 1959, pp 541-546.

*FTD-TT-63-1068

Forklift Replaces Scaffold, by Jaroslav Prochazka, CZECH, per, Bezpecnost a Hygiena Prace, Vol XIII, No 5, 1963, p 155-.

*ACSI 1-3620 ID 2250325

Contribution to the Technique of Synthetic Evaluation of Phytocoenological Records, by M. Ruzicka. CZECH, per, Biologia, Vol X, No 2, pp 217-223.

CSIRO/No 6001

The Use of Latex Particles for Serological Purposes, by V. Houba, 7 pp. CZECH, per, Ceskoslovenska Epidemiologie, Mikrobiologie, Immunologie, Vol XI, No 1, 1962, pp 53-57.

NIH 10-16-63

Transaminase Activity After Treatment With Methyltestosterone, Testosterone Propionate, Chlorpromazine and Methylthiouracil, by V. Pettra, V. Lahn.

CZECH, per, Eperientia, Vol XVI, No 455, 1960.

*FTD-TT-63-1067

Activity of Transminases and Lactic Dehydrogenase After Treatment With Methyltestosterone, by V. Petera, V. Lahn.
CZECH, per, Journal of Internal Medicine and Allied Areas, Vol XVIII, 1961, p 801.

*FTD-TT-63-1066

Progress of Liquidation of Tuberculosis of Cattle, by Oto Dobsinsky, Bohuslav Robes, 14 pp. CZECH, per, Veterinarstvi, Vol XIII, No 7, Sep 1963, pp 289-293.

JPRS 21491

Will the Microbial Deparaffining of Gas-Oils Relieve the World Shortage of Proteins?, by Paul Ostoya, 6 pp.
FRENCH, rpt, Special Issue for the Sixth World Petroleum Congress at Frankfurt-am-Main, 19-26 Jun 1963, pp 112-115.

Navy Tr 3615 ONI 957

A New Potentiometric Determination of Fluorine by Precipitation in the Form of Lanthanum Fluoride, by A. Chambionnat, G. Montel, 10 pp. FRENCH, per, Bulletin de la Societe Chimique de France, No. 2, 1963, pp. 362-365.

NIH 9-24-63

Study of the Lake Yielded by Thorium With Trisodium Salt of p-Sulfophenylazochromotropic (SPADNS) Part 1. Behavior in Chlorhydric Medium and Investigation of Its Molecular Composition, by Fleury, Solange, 11 pp.
FRENCH, per, Bulletin de la Societe Chimique de France, No 2, 1963, pp 388-391.

NIH 9-21-63

Activity of the Insulin on the Spontaneous Consumption of Sapid Solutions, by J. Le Magnen, H. Pieron, 5 pp.
FRENCH, per, Comptes Rendus des Seances de la Societe de Biologie, Vol CXLVII, 1953, pp 1753-1756.

NIH 10-14-63

Hyperphagia Produced in the White Rat by Alteration of the Mechanism of Peripheral Satiation, by J. Le Magnen, 5 pp. FRENCH, per, Comptes Rendus des Seances de la Societe de Biologie, Vol CL, No 1, 1956, pp 32-35.

NIH 10-8-63

The Process of Discrimination, by the White Rat, of Alimentary and Non-Alimentary Sugary Stimuli, by J. Le Magnen, 6 pp.
FRENCH, per, Journal de Physiologie, Vol XLVI, 1954, pp 414-418.

NIH 10-10-63

Food Poisoning After Eating Fish, by H. Gounelle. FRENCH, per, Revue Française d'Hygiene et Medicine Scolaire et Universitaire, Vol IX, No 7, pp 603-624.

Dept of Interior SH211 E82 No 474

Work Report on the Activities of the Institute for Circulatory Research and Sports Medicine Academy of Physical Training, by W. Hollmann, 31 pp.

GERMAN, rpt, Arbeitsbericht uber die Tatigkeit des Instituts fuer Kreislaufforsch. und Sportmed, 1963, 27 pp.

NIH 10-20-63

Studies of the Redfish, Sebastes Marinus L.,
From the Ecological and Fishery Research Standpoints.
I. The Economic Importance of the Redfish.
II. Determination of Age in the Redfish, by
Adolf Kotthaus.
GERMAN. bk. Berichte der Deutsch Wiss Kommission

GERMAN, bk, Berichte der Deutsch Wiss Kommission
fuer Meeresforschung, 1952.

Dept of Interior
SH211 E82 No 511

Comparative Electron Optical and Chemical Investigations on the Cell Wall of Escherichia Coli B., by H. Frank, H. H. Martin, 6 pp. GERMAN, rpt, European Conference on Electron Microscopy, 1963, pp 1024-1027.

NIH 10-17-63

Selected Articles From the German Book Impulstechnik.

Pulse Analysis, by F. A. Fischer, (pp 1-39). *Navy/APL J299

Application of Information Theory to Pulse Problems, by W. Meyer-Eppler, (pp 40-59).

*Navy/APL J300

Problems of Multiple Utilization of Communication Channels of Pulse Modulation, by H. Holzwarth, (pp 97-124).

*Navy/APL J301

Pulse Transmission in the Nervous System, by H. Fack, (pp 259-288).

*Navy/APL J302

Thrombokinase and Thromboplastin Time, by A. Thies, 33 pp.

GERMAN by Monschliche und Tierische Gewebsthrombok

GERNAN, bk, Menschliche und Tierische Gewebsthrombokinase, 1957, 56 pp.

NIH 9-17-63

The Role of Heart of Catheterization and Angiocardiography in the Development of Modern Medicine, by W_{\bullet} Forssmann, 5 pp.

GERMAN, bk, Les Prix Nobel, 1956, pp 177-181. NIH 9-14-63

Comparison of Antidepressive Characteristics of Amitriptylin and Imipramin, by J. Angst, 11 pp. GERMAN, bk, Psychopharmacologia, Vol IV, No 6, 1963, pp 389-401.

NIH 9-16-63

Relation of Cell Development to the Growth of Plants, and Plant Organs, by Wilh normeister, 43 pp.
Chemian by The Science of Plants Cells From

GERMAN, bk, The Science of Plants Cells, From the Handbook of Physiological Botany, 1867.

AEC-Tr-6005

Studies in the Preparation of Tablets To Be Dissolved in the Mouth and Throat, Using Polyvinylpyrrolidone as Excipient, by II. Kohler. GERMAN, per, Deutsche Apotheker-Zeitung, Vol CII, 1962, pp 507-510.

GB/262

The Formation of Lactams From Lactones, by Ernst Spath, Josef Lintner, 9 pp. GERMAN, per, Deutsche Chemische Gesellschaft, Vol LXIX, 1936, pp 2727-2731.

Patent Office

Chemical Preservation of Foods, by R. Hamm. GERMAN, per, Fleischwirtschaft, Vol XIV, No 3, 1962, pp 186-193.

CSIRO/No 6301

Influence of Freeze-Drying on the Interaction Between Inorganic Ions and Proteins of Meat, by R. Hamm.
GERMAN, per, Fleischwirtschaft, Vol XIV, No 3, 1962, pp 204-206.

CSIRO/No 6302

Microbiological Conditions of Pre-Packaged Meat, by N. Hansen, H. Riemann. GERMAN, per, Fleischwirtschaft, Vol XIV, No 19, 1962, pp 861-868.

CSIRO/No 6315

Carbon Dioxide Absorption by Organic Compounds Free From Nitrogen and Sulfur, by Roland Mayer, Martin Hoffmann, 19 pp. GERMAN, per, Journal fuer Praktische Chemie, Vol XI, 1960, pp 327-335.

Patent Office

Two Year Pot Experiments on the Influence of Varying Water Supply on the Growth and Yield of 14 Grass Species, by II. Bracker.
GERMAN, per, Kulturtechniker, Vol XLVII, 1959, pp 60-72.

CSIRO/No 5600

Treatment of Flue Dust, by Edmund Thews. GERMAN, per, Metallurgische Verarbeitung von Altmetallen und Ruckstanden, 1948, pp 272-277.

Dept of Interior TN7 E57 No 690

The Spread of Glaucoma Simplex in the Apparently Healthy Population Not Receiving Ophthalmological Treatment, by W. Leydhecker, 28 pp. GERMAN, per, Ophthalmologica, No 13, 1959, pp 359-388.

NIII 9-2-05

Photodynamic Production of Mutations in the Sproes of Penicillium Notatum, by Reihnard Kaplan, 19 pp. GERMAN, per, Planta, Vol XXXVIII, 1950, pp 1-11.

AEC-Tr-6018

The Effect of Vertical Vibration on the Spinal Column and the Stomach, by W. Christ, H. Dupuis. GERMAN, per, Sonderdruck aus Zentraliblatt fuer Arbeitsmedezin und Arbeitsschutz, Vol XIII, No 1, 1963.

*FTD-TT-63-1062

Origin of Spinner's Eye From the Point of View of Neuropathology, by H. T. Monnich. GERMAN, per, Z fuer Hygiene, Vol VII, 1961, pp 581-595.

GB/121

Electrophoretic Mobility of Bovine Spermatozoa, by G. F. Fuhrmann, E. Granzer, 16 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIIb, No 3, 1963, pp 236-242.

NIH 10-5-63

Investigations Concerning the Physiology of Stimulation in Bloodsucking Arthropoda in Connection With Their Selection of Food, by B. J. Krijgsman, 32 pp.
GERMAN, per, Z fuer Vergleichende Physiologie, Vol XI, No 4, 1930, pp 702-729.

NIH 10-21-63

North African Bdellidae and Cumaxidae Collected by **Dr.** F. Grandjean, Paris in 1931, by S. Thor. GERMAN, per, <u>Zoologischer Anzeiger</u>, No 97, 1932, pp 62-69.

CSIRO/No 6199

Studies in Psychology and Education. An Important Experiment in the Reformation of Juvenile Delinquents, by E. Peled, 16 pp.
HEBREW, per, <u>Hachinuch</u>, Vol XXXIV, No 2, 1961, pp 129-136.

NIH 9-10-63

Evaluation of Tetraploid Red Clover From the Point of View of Plant Breeding, by A. Janossy. HUNGARIAN, per, Novenytermeles, Vol XI, No 4, 1962, pp 341-354.

NZDIA

Experimental Adenocirrhosis of Rat. Morphological and Karyometric Contribution to the Definition of Hepatic Adenomata in the Course of Cirrhosis From CCl₄, by A. Costa, G. Weber, 35 pp. ITALIAN, bk, Archivio De Vecchi per 1 Anatomia Patologica, Vol XXXIX, No 1, 1963, pp 259-301.

NIH 10-4-63

Pseudo-Aortic Stenosis From Idiopathic Hypertrophy of the Myocardium, by R. Benvenuto, M. Serratto, 20 pp. ITALIAN, per, Cuore e Circolazione, Vol XLV, No 1, 1962, pp 1-17.

NIH 9-9-63

On the Various Crystalline Modifications of Diethyl Malonyl Urea, by A. Braibanti, 6 pp. ITALIAN, per, Gazzetta Chimica Italiana, No 90, 1960, pp 1394-1398.

NIH 10-25-63

Microscopic and Ultrastructural Characteristics of the Malignant Cells in Connection With the Cytodiagnosis of Tumors, With Casuistics Contribution, by C. Sirtori, 22 pp. ITALIAN, per, Minerva Ginecologica, Vol XIV, No 5, 1962, pp 267-275.

NIH 9-15-63

The Practice of Medicine in New China, by Huang K'ai-yun, 17 pp.

JAPANESE, per, Ajiya Keizai Jumpo, No 545, 1963, pp 1-8.

JPRS 21834

Studies of Drifting Sea weeds: Larval and Juvenile Fishes Accompanying Drifting Sea Weed-I. Investigations in the Vicinity of Tsuyazake in Fiscal Year 1957, by Keitaro Uchida, Yoichi Shojima.

JAPANESE, per, Bulletin of the Japanese Society of Scientific Fisheries, Vol XXIV, No 6, 7, 1958, pp 411-415.

Dept of Interior ACS E57 No 55

A Study of the Effects of Psychotherapy on Delinquents, by K. Mizushima, 16 pp. JAPAMESE, per, Japanese Journal of Psychology, Vol XXXII, No 6, 1962, pp 381-387.

NIH 9-20-63

Study on Mentally Defective Sex Delinquents, by K. Higuchi, 29 pp.

JAPANESE, per, Journal of Correctional Medicine, Vol VII, No 1, 1958, pp 40-52.

NIH 10-9-63

Effects of Anastomosis Between the Renal and Portal Vein in Experimental Renal Hypertension, by Sigeru Auki, 24 pp.

JAPANESE, per, Nippon Junkanikigaku Shi, No 26, 1962, pp. 455-465.

MIN 10-2-63

Studies on the Distribution of Pleuropneumonialike Organism, PPLO in Humans and Animals, by I. Shogo, 21 pp. JAPANESE, per, Nippon Saikingaku Casshi, Vol XV, No 11, 1960, pp. 1193-1199.

NIH 9-1-63

| Some Observations on the Consumption of Oxygen in Water by the Roots of Rice Plants, by K. Sato. JAPANESE, per, Proceedings of the Crop Science Society, Vol XXI, No 1, 1952, pp 16, 17. | CSIRO/No 6305 |
|---|----------------------------|
| Study on the belinquency of Mental Defectives and the Predictive Factor of Recidivism, by K. Higuchi, 34 pp. JAPANESE, per, Psychiatria et Meurologia Japonica, Vol LX, No 4, 1958, pp 109-120. | MH 10-11-63 |
| Phosphorus Metabolism in Erythrocytes and Its Physiological Significance, by M. Nakao, 26 pp. JAPANESE, per, Seikagaku, Vol XXXV, No 4, 1963, pp. 187-197. | ::III 9-12-63 |
| The Role of the Human Factor in Control Systems, by Janusz Morawski, 67 pp. POLISH, per, Archiwum Budowy Maszyn, Vol VIII, No 4, 1961, pp. 369-409. 9688774 | 1TD-TT-65-331 |
| Studies on Buckwheat. Part VI. Variability of Yields Within Various Buckwheat Varieties and Populations, by S. Levicki, B. Ruszkowska, 7 pp. POLISH, per, ilodowla Roslin Aklimatyzacja i Nasiennictwo, Vol II, No 4, 1958, pp 561-564. 9213498 | GTS 61-31253 PL-480 |
| On the Genera Ophioneurus Ratz, and Lathromerella Girault, Hymenoptera, Chalcidoidea, Trichogrammatidae, by Swiatoslaw Nowicki, 5 pp. PGLISH, per, Polskie Pismo Entomologiczne, Vol VI, No 1, 2, pp 100-102, 9213497 | OTS 61-31260 PL-480 |
| Protein From Petroleum, by A. S. Banciu. RUHANIAN, per, <u>Stiinta si Tehnica</u> , No 7, 1963, pp 24, 25. | *ACSI I=3530 ID 2246317 |
| Production of Chemicals and Pharmaceuticals for Agriculture, by S. Sigartau, 6 pp. RUMANIAN, per, Stiinta si Tehnica, No 9, 1963, pp. 18, 19. | JPRS 21654 |
| What has He Done? Cancer Researcher Bjorklund Will be Evicted. Read About Results and Battles. And What Will He Do Now?, by S. Nordfelt, 6 pp. SWEDISH, bk, Idun Vecko Journalen, No 37, 1963, pp. 20, 21, 52, 53. | NIH 10-13-63 |
| | |

From the Women's Clinic, the Academic Hospital, Uppsala. Chief: Prof. Car Gemzel, Passage of Drugs From Mother to Fetus, by F. Pettersson, 12 pp. SWEDISH, per, Svenska Lakartidningen, Vol LX, No 10, 1963, pp 681-690.

NIH 10-12-63

Morphological Changes in the Internal Organs and Skin From Local Ultrasonic Irradiation, by S. A. Bershteyn, 5 pp.
UKRAINIAN, per, Dopovidi Ak Nauk Ukrayins'koyi RSR, No 7, 1963, pp 924-927.

Scientific Chemistry

Increasing the Mechanical Properties of Castings by Thermal Treatment of the Metal in Liquid State, by A. G. Spasskiy, B. A. Fomin, 10 pp. RUSSIAN, bk, Issledovaniye Splavov Tsvetnykh Metallov, No 3, 1962, pp 143-148. 9687656

FTD-TT-63-714

Selected Articles From the Russian Book
Issledovaniya v Oblasti Kremniyorganicheskikh
Soyedineniy; Sintez i Fiziko - Khimicheskiye
Svoystva, Moscow, 1962. 9687651

FTD-TT-63-451

Synthesis or Organosilicon Compounds With Siloxane Carbon Units, by N. S. Nametkin, A. V. Topchiyev, 37 pp, (pp 105-129).

Synthesis of Organosilicon Compounds With Silazane-Carbon and Silthiane-Carbon Units, by A. V. Topchiyev, N. S. Nametkin, 24 pp, (pp 130-145).

Chloromethylation of Organosilicon Compounds and Synthesis of Organosilicon Compounds From Chloromethylated Alkylbenzenes, by N. S. Nametkin, A. V. Topchiyev, 17 pp, (pp 156-167).

Dyes, Medicinals, and Toxic Substances, by I. L. Knunyants, A. V. Fokin, 8 pp. RUSSIAN, bk, Pokoreniye Nepristupnogo Elementa, Moscow, 1963, pp 182-190.

JPRS 21673

Refining Highly Unsaturated Sulfurous Distillates of the Cracking Process, by V. G. Plyusnin, D. F. Vorfalomeyev, 15 pp.
RUSSIAN, bk, Trudy Shornik Rabot Laboratorii Neft-esinteza, Akademiya Nauk SSSR, No 4, 1960, pp 85-94.
9687667

FTD-TT-63-782

Lithium, Fields of Known and Possible Application, by Boris Iosifovich Kogan, 150 pp.
RUSSIAN, bk, Vsyesoyuznogo Instituta Nauchnoi i
Tekhnicheskoi Informatsii, Moscow, 1960. 9688753

DDC RSIC-71

Radiation-Chemical Oxidation of Potassium Ferrocyanide in Aqueous Solutions, by A. V. Egunov, P. I. Dolin.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLVIII, No 1, 1963, pp 140-143.

*Navy/NRL

Anticholinesterase Properties of Some O-Ethly-S-Alkylmethylthiophosphonates, by N. N. Godovikov, 9 np. RUSSIAN, per, <u>Dok Ak Nauk SSSR</u>, Vol CLI, No 5, 1963, pp 1104-1107.

pp 344-349. 9687224

Resonance Theory of Chemical Reaction Rates, by A. M. Brodskiy, A. Ya. Temkin, 6 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLII, No 1, 1 Sep 1963, pp 127-130.

JPRS 21897

Rate of Chemical Reaction and Its Effect on the Process of Droplet Combustion, by V. R. Kuznetsov, 8 pp.
RUSSIAN, per, Inzhenernyy Zhur, Vol II, No 4, 1962,

FTD-TT-63-653

The Effect of Oxygen on the Desulphurization of Liquid Steel, by A. I. Kondrat'yev, A. M. Samarin. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 9, 1962, pp 99-104.

*BISI 3441

Method of Drying Formaldehyde by Absorption, by G. S. Goncharov, et al. RUSSIAN, per, Plasticheskiye Massy, No 4, 1962, pp 50-52.

GB/28

Chemistry of Certain Inorganic Fluorides of Nitrogen, by A. V. Pankratov, 23 pp. RUSSIAN, per, Uspekh Khim, Vol XXXII, No 3, 1963, pp 336-353. 9689086

DDC RSIC-77

New Methods of Inorganic Synthesis, by V. I. Mikheyeva, 11 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 5, 1963, pp 34-39.

NLL Tr Bulletin Vol V, No 10, 1963

Results and Prospects of the Development of Polymer Chemistry, by G. S. Kolesnikov, 8 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 8, 1963, pp 70-75.

JPRS 21716

Titrometric Determination of Hydrogen Ion Concentration, by G. Ratushnyy.

RUSSIAN, per, Vinodelie i Vinogradarstvo SSSR, Vol VI, No 213, 1962, pp 3-6.

CSIRO/No 6334

Pentoses and Pentosans of Grapes and Wine, by K. Almashi.

RUSSIAN, per, Vinodelie i Vinogradarstvo SSSR, Vol VI, No 213, 1962, pp 8-11.

CSIRO/No 6333

Preparation and Electrophysical Properties of Some Poly-Schiff Bases, by B. E. Davydov, B. A. Krentsel', 5 pp.

RUSSIAN, per, Vysokomolek Soyedineniya, Vol V, No 3, 1963, pp 321-324.

Process of Preparing Cycloaliphatic Oximes, 7 pp. BELGIAN, Patent No 555,380.

Patent Office

Enol Lactones With a Five-Membered Ring, by K. Syhora, 89 pp.

CZECH, per, Chemicke Listy, Vol LIII, 1959, pp 311-364.

AEC-NP-T r-1046

The Determination of Oxygen in Steel, by M. Hanin. FRENCH, per, Centre de Documentation Siderurgique Circulaire d'Informations Techniques, Vol XX, No 3, 1963, pp 767-777.

BISI 3293

Relations Between the Structure and the Molecular Properties of High Polymers, by Geoffroy Gee, 13 pp. FRENCH, per, Revista General Caoutchouc, Vol XXIV, 1947, pp 81-86.

AEC-SCL-T-509

Detectors for Toxic Gases, Vanors and Dust, by Karlhel - Johs, 25 pp. GERMAN, Nachwiesgerate fuer Giftige Gase Da

GERMAN, Nachwiesgerate fuer Giftige Gase Dample und Staute, Berlin, 1962, pp 5, 57, 75, 77, 78, 92, 93, 111-116, 125-131, 135-139, 144, 145, 157-189, 211, 212.

JPRS 21771

Effect on Precipitation on the Mechanical Properties of a Hardened Al - Si Alloy, by H. Boehm, 17 pp. GERMAN, per, Acta Metallurgica, No 11, 1963, pp 475-484.

AEC-Tr-5879

An Attempt at a Systematic Description of Test Tube Reactions, by Karl Grosskopf.

GERMAN, per, Chemiker Zeitung-Chemische Apparatur,
Vol LXXXVII, No 8, 1963, pp 270-275.

*Navy/NRL

Reason for the Formation of Bubbles in Vitreous Sanitary-Ware Glazes, by G. Rosenthal. GERMAN, per, Deutsche Keramische Gesellschaft Berichte, Vol XXXVIII, 1961, p 381.

GB/8/593

Analytical Detection of Synthetic Antioxydants in the Edible Oils II: Seperation and Identification of Synthetic Antioxydants Through Thinfilm Chromatography, by Arthur Seher, 21 pp.
GERMAN, per, Fette, Seifen, Anstrichmittel, Vol LXI,

DDC RSIC-62

Determination of Argon in Potassium Minerals. Argon Losses in Potash Felspars and Mica Minerals, by W. Gentner, W. Kley. GERMAN. per. Geochimica et Cosmochimica Acta, Vol XI

No 5, 1959, pp 345-351, 9688757

GERMAN, per, Geochimica et Cosmochimica Acta, Vol XII, 1957, pp 323-329.

NZDIA

Correction Procedures for the Flame-Photometric Sodium Determination in the Presence of Calcium, by Friedrich Hegemann, Barbara Pfab, 9 pp. GERMAN, per, Glastechnische Berichte, Vol XXVII, No 6, 1954, pp 189-192, 9688755

and the second second second second

DDC RSIC-72

Compressibility of Several Gases at 0 and Below 1 ATM., and Their Deviations From the Law of Avogadro, by A. Guye, T. Batuecas, 12 pp.
GERMAN, per, Helvetica Chimica Acta, Vol V, 1922, pp 532-543. 9687267

DDC RSIC-66

The Photolytic Formation of Hydrogen Peroxide, by Emil Baur, C. Neuweiler, 10 pp.
GERMAN, per, Helvetica Chimica Acta, Vol X, 1927, pp 901-907.

AEC-Tr-5949

Concerning Microanalytical Determination of Oxygen in Organic Substances With Relative Conductometric End Point Reading, by Franz Salzer, 31 pp. GERMAN, per, Mikrochimica Acta, Vol V, 1962, pp. 835-867. 9687622

DDC PSIC-70

A Fast Semi-Automatic Micro-Gasvolumetrical Determination of Nitrogen in Organic Substances by Utilizing Co₃O₄ as an Oxidizing Catalyst, by Miroslav Vecera, 17 pp.

GERMAN, per, Mikrochimica Acta, Vol V, 1962, pp 896-912.
9688756

DDC RSIC-74

On the Elements of Aeration, by Heribert Grubitsch, Tenho Sneck.
GERMAN, per, Monatshefte fuer Chemie und Verwandte, Teile Anderer Wissenschaften, Vol LXXXVI, No 5, 1955, pp 752-764.

*Navy/NRL

The Direct Current Disruption Spark as a New Ion Source of Mass-Spectroscopic Investigation of Solid Bodies, by K. D. Schuy, H. Hintenberger, 11 pp. GERMAN, per, Z fuer Naturforsch, 1963, pp 95-97.

AEC-SCL-T-508

Quantitative Spectrographic Determination of Elements in Solution, by Yasumitsu Uzumasa, Seiichiro Hikime, 9 pp.

ADAMISE Der Burnelsi Karaku. Vol. V. 1056

JAPANESE, per, <u>Bunseki Kagaku</u>, Vol V, 1956, pp 327-329. 9689087

PDC RSIC-78

Organic Polarography, by M. Suzuki, 37 pp. JAPANESE, per, <u>Bunseki Kagaku</u>, Vol XI, 1962, pp 37-46.

AEC-Tr-6011

Chromatography, by Kazuo Satake, Shiro Harasawa, 31 pp.

JAPANESE, per, Bunseki Kagaku, Vol XI, 1962, pp 62-72.

AEC-Tr-6002

AT MANY TO A STATE OF THE STATE

Gas Chromatography, by Tsugio Takeuchi, Masami Suzuki, et al, 20 pp.

JAPANESE, per, Bunseki Kagaku, Vol XI, 1962, pp 75-85.

AEC-Tr-5975

Study on the Reaction of Higher Fatty Acid Methyl Esters With Metallic Sodium. III. Preparation of Higher 8-Keto-Esters and Higher Ketones and Their Properties, by Masatoshi Fukushima, Katsujiro Shimokai. JAPANESE, per, Journal of Japan Oil Chemists' Society, Vol IX, No 11, 1960, pp 593-600.

Dept of Interior AC5 E57 No 53

The Stability of the Positive Column in a Strong Magnetic Field, by Michio Matsumoto, 18 pp. JAPANESE, per, Kakuyugo-Kenkyu, Vol IX, 1962, pp 543-554.

AEC-NP-Tr-1045

X-Ray Investigation of Methyl Alcohol, by O. Z. Golik. UKRAINIAN, per, <u>Dopovidi Ak Nauk Ukrains'koyi SSR</u>, No 5, 1954, pp 457-459.

CRL/T. 1266

Earth Sciences & Astronomy

Basic Feature of the Earth Crust Structure on Geophysical Data, by R. M. Demenitskaya. RUSSIAN, rpt.

ACIC

Selected Articles From the Russian Book Fundamental'naya Astrometriya. Opredeleniye Koordinat Zvezd.

VCIC

Part I

Fundamental Astrometry, Determination of Stellar Coordinates, by V. V. Podobed.

Part II.

Fundamental Astrometry. Determination of Stellar Coordinates, by V. V. Podobed.

Part III.

Fundamental Astrometry. Determination of Stellar Coordinates, by V. V. Podobed.

Platformy i Neftenosnost' Kembriya.

Geological Interpretation of Geophysical Anomalies Prevailing in the Area Between Turukhan and Yenisey Rivers, by A. V. Chernyy. RUSSIAN, bk, Geologicheskoye Istolkovaniye Geofizicheskikh Anomaliy Turukhan-Enisey Mezdurech'ya.

ACIC

Geological Structure of the Northern Perphery of Karaganda Basin, by O. M. Kanfel. RUSSIAN, bk, Geologicheskoye Stroyeniye Severnogo Obramleniya Karagandinskogo Basseyna.

ACTO

Geological Structure of the Southern Part of the Siberian Platform and Oil Contents of the Cambrian, by V. G. Vasil'yev. RUSSIAN, bk, Geologicheskoye Stroyeniye Yuga Sibirskoy

ACIC

The Differentiation of Rare-Earth Elements in the Magmatic Process, by Yu. A. Balashov, 21 pp. RUSSIAN, bk, Khimiya Zemnoy Kory, Vol I, 1963, pp 352-365. 9213769

NASA TT F-179

Concerning Relation Between Regional Magnetic Anomalies of the Siberian Platform and the Basaltic Layer of the Earth's Crust, by A. P. Bulmasov. RUSSIAN, bk, O Svyazi Regional nykh Magnitnykh Anomaliy Sibirskoy Platformy s Bazal tovym Sloyem Zemnoy Kory.

ACIC

Factors Determining the Development of Phytoplankton in Water Basins, by K. A. Gusev, 10 pp. RUSSIAN, bk, Pervichnaya Produktsiya Morey i Vnutrennikh Vod, 1961, pp 301-307.

Navy Tr 3600 HO 200

The Density and Magnetic Susceptibility of Zeysko-Bureinskaya Depression Rocks, by E. N. Lishnevskiy.
RUSSIAN, bk, Plotnost' i Magnitnaya Vospriim-chivost' Gornykh Porod Zeysko-Bureinskoy Vpadiny.

ACIC

Types of Basic Structural Elements of Earth's Crust in Late Precambrian, by Yu. A. Kosygin.
RUSSIAN, bk, Tipy Osnovnykh Strukturnykh Elementov
Zemnoy Kory v Pozdnem Dokembrii, No 1, 1960,
pp 16-25.

ACIC

Seismological Instruments, by Ye. S. Borisevich. (NY-7895)
RUSSIAN, bk, Trudy Inst Fiziki Zemli imeni
O. Yu. Shmidta: Seysmicheskiye Pribory, No 26(193), No 2, 1963, pp. 2-103.

*JPRS

Platformy i Neftenosnost' Kembriya.

Geological Interpretation of Geophysical Anomalies Prevailing in the Area Between Turukhan and Yenisey Rivers, by A. V. Chernyy. RUSSIAN, bk, Geologicheskoye Istolkovanive Geofizicheskikh Anomaliy Turukhan-Enisey Mezdurech'ya.

ACIC

Geological Structure of the Northern Perphery of Karaganda Basin, by O. M. Kanfel. RUSSIAN, bk, Geologicheskoye Stroyeniye Severnogo Obramleniya Karagandinskogo Basseyna.

ACIC

Geological Structure of the Southern Part of the Siberian Platform and Oil Contents of the Cambrian, by V. G. Vasil'yev. RUSSIAN, bk, Geologicheskoye Stroyeniye Yuga Sibirskoy

ACIC

The Differentiation of Rare-Earth Elements in the Magmatic Process, by Yu. A. Balashov, 21 pp. RUSSIAN, bk, Khimiya Zemnoy Kory, Vol I, 1963, pr 352-365. 9213769

NASA TT F-179

Concerning Relation Between Regional Magnetic Anomalies of the Siberian Platform and the Basaltic Layer of the Earth's Crust, by A. P. Bulmasov. RUSSIAN, bk, O Svyazi Regional'nykh Magnitnykh Anomaliy Sibirskoy Platformy s Bazal'tovym Sloyem Zemnoy Kory.

ACIC

Factors Determining the Development of Phytoplankton in Water Basins, by K. A. Gusev, 10 pp.
RUSSIAN, bk, Pervichnaya Produktsiya Morey i
Vnutrennikh Vod, 1961, pp 301-307.

Navy Tr 3600 HO 200

The Density and Magnetic Susceptibility of Zeysko-Bureinskaya Depression Rocks, by E. N. Lishnevskiy.
RUSSIAN, bk, Plotnost' i Magnitnaya Vospriim-chivost' Gornykh Porod Zeysko-Bureinskoy Vpadiny.

ACIC

Types of Basic Structural Elements of Earth's Crust in Late Precambrian, by Yu. A. Kosygin.
RUSSIAN, bk, Tipy Osnovnykh Strukturnykh Elementov Zemnoy Kory v Pozdnem Dokembrii, No 1, 1960, pp 16-25.

ACIC

Seismological Instruments, by Ye. S. Borisevich. (NY-7895) RUSSIAN, bk, Trudy Inst Fiziki Zemli imeni O. Yu. Shmidta: Seysmicheskiye Pribory, No 26(193), No 2, 1963, pp 2-103.

*JPRS

Experiments on the Dissipation of Clouds Over Large Areas, by I. I. Gayvoronskiy, Yu. A. Seregin, 24 pp.
RUSSIAN. bk. Trudy Tsental' Aerologicheskov

RUSSIAN, bk, Trudy Tsental' Aerologicheskoy Observ, No 44, 1962, pp 15-27. 9687671

FTD-TT-63-633

Dissipation of Supercooled Fog From the Ground, by I. I. Gayvoronskiy, Yu. A. Seregin, 14 pp. RUSSIAN, bk, Trudy Tsentral' Aerologicheskoy Observ, No 44, 1962, pp 28-37. 9687671

FTD-TT-63-633

The Live Sounds of the Sea, by N. Tarasov. RUSSIAN, bk, Zhivyye Zvuki Morya, 1963, 88 pp.

Dept of Interior SH211 E82 No 501

Stellar Astronomy, by V. Zonn, K. Rudnitskiy, 7 pp. RUSSIAN, bk, <u>Zvezdnaya Astronomiya</u>, 1959, pp. 131-135. 9687652

FTD-TT-63-793

Terrestrial Magnetism, by Sh. Dolginov, 14 pp. RUSSIAN, per, Aviats i Kosmonavt, No 7, 1963, pp 26-32.

JPRS 21493

Crystallization in Supercooled Clouds, by V. I. Belyayev, 8 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLI, No 4, 1 Aug 1963, pp 841-844.

JPRS 21495

The Influence of Air Humidity on the Development of Convective Motions in a Cloudless Atmosphere, by N. I. Vul'fson, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLI, No 5, 1963, pp 1089-1092.

JPRS 21721

Computation of the S2 Tidal Component for the Pacific Ocean Water Area on the BESM-2 Electronic Computer, by K. T. Bodganov, V. A. Magarik, 6 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLI, No 6, 1963, pp 1315-1318.

JPRS 21703

Effective Geological Prospecting Its Importance in the Search for Oil and Gas, by A. Yamnov, 10 pp. RUSSIAN, np, Ekon Gazeta, No 23, 1963.

NLL Tr Bulletin Vol V, No 10, 1963

Utilization of the Subsurface Heat of the Earth, by V. A. Nurshanov, 6 pp. RUSSIAN, per, Gazovaya Prom, No 8, 1963, pp 52,53.

Selected Articles From the Russian Periodical Geofiz Byul, No 12, 1962.

JPRS 21593

International Symposium on Geomagnetic Storms and Cosmic Rays, by V. A. Troitskaya, 13 pp, (pp 14-26).

The Problem of Changes of Climate of the Earth, by A. Kh. Khrgyan, 11 pp, (pp 29-38).

Recommendations of the Fifth Conference of Representatives of Countries of the European-Asiatic Region, 13 pp, (pp 45-53).

Some Peculiarities of Wind Conversion in the Lower Stratosphere, by N. Z. Pinus, 5 pp, (pp 57-60).

Geological Activity of the Hastern Antarctica Ice Cap, by S. A. Yevteyev, 9 pp, (pp 61-68).

Third All-Union Conference of the Section on the Ionosphere, by Yu. V. Kushnerevskiy, 5 pp, (np 109-114).

The Calculation of Plumb-Line Deflections on the Basis of Gravity Anomalies, by V. G. Kolmogrov, 12 pm.
RUSSIAN, per, Geolog i Geofiz, No 8, 1963, pp 100-106. JPRS 21648

A Study of the Conductivity of Rocks at High Temperatures, by U. I. Moyseyenko, V. Ye. Istomin, 6 pp. RUSSIAN, per, Geolog i Geofiz, No 8, 1963, pp 106-109. JPRS 21649

Problems in the Sampling Method Used for Study Marine Microflora, by Yu. I. Sorokin, 13 pp. RUSSIAN, per, Okeanologiya, Vol II, No 5, 1962, pp 888-897.

JPRS 21589

Materials on the Ecology of Phaeocystis Pouchetii Lagerheim, 1893 Chrysophycaee, by N. I. Kashkin, 13 pp.
RUSSIAN, per, Okeanologiya, Vol III, No 4, 1963, pp. 697-705.

Selected Articles From the Russian Periodical Priroda, No 8, 1963.

JPRS 21828

The Earth's Mantle and Crust, by L. S. Tarasov, 31 pp, (pp 3-17).

How to Increase the Accuracy of Weather Forecasting -- an Automatic Telemetering Hydrometeorological System, by V. P. Petrov, 13 pm, (pp 38-44).

Optical Phenomena in the Atmosphere, by A. D. Zamorskiy, 10 pp, (pp 62-66).

The Flat Hydrogen Cloud Around the Earth, by P. V. Shcheglov, 8 pp, (pp 85-88).

Paleogeography and the Quest for Rich Oil Deposits, by N. I. Markovskiy, 7 pp. (pp 88-90).

Literature on Meteorology and Hydrology for 1962: Articles in Journals and Symposia, 11 pp. RUSSIAN, per, Met i Gid, No 9, 1963, pp 58-61.

JPRS 21609

Reduction of Triangulation Bases to a Reference Surface, by A. A. Izotov. RUSSIAN, per, Sbornik Nauch-Tekh i Proiz Statey po Geod, Karto, Topo, Aeros i Gravi, No 7, 1944, pp. 50-56.

ACIC

Interpretation of Gravity Anomalies of the Eastern Regions of the Russian Platform in the Light of Contemporary Geological and Geophysical Data, by R. F. Voloderskiy.
RUSSIAN, per, Scientific Reports of the Higher School of Geological-Geographical Sciences, No 2, 1959, pp 216-222.

ACIC

Atmospheric Electric Measurements in the Elbrus Region, by M. V. Krasnogorskaya, 28 pp. RUSSIAN, per, <u>Trudy El'Brusskoy Ekspeditsii</u>, Vol II, No 5, 1961, pp 108-126.

JPRS 21604

The Scattering of Electromagnetic Waves by Turbulent Inhomogeneities of the Troposphere, by V. I. Tatarskiy, G. S. Golitsyn, 118 pp.
RUSSIAN, per, Trudy Inst Fiz Atmosfery, Atmosfernaya Turbulentnost, No 4, 1962, pp 147-202.

Selected Articles From the Russian Periodical Trudy Inst Okeanologii, Vol XLIX, 1961.

| Materials on the Composition of Species of Algae in the Marine Fouling on Vessels in the Sea of Azov and the Black Sea, by K. L. Ivanova, 14 pp, (pp 137-146). | Navy [r 3594 HO 177 |
|---|------------------------|
| The First Stage in the Settlement of Shipworms in the Sea of Azov, by P. I. Ryabchikov, I. N. Soldatova, 12 pp, (pp 147-155). | Navy Tr 3595 |
| The Effect of Variable Salinity Conditions on the Bivalve Mollusk Teredo Navalis L., by I. N. Soldatova, 24 pp, (pp 162-179). | Navy Tr 3596 HO 179 |
| The Effect of Various Salinity and Temperature Conditions on the Growth Rate of Lepralia Pallasiana Moll. Colonies, by R. G. Simkina, Ye. P. Turpayeva, 7 pp, (pp 200-204). | Navy Tr 3597 HO 181 |
| Propagation of the 1927 Tsunamis in the Black Sea, by Z. K. Grigorash, 5 pp. RUSSIAN, per, Trudy Morskogo Gidrofizicheskogo Inst, Vol XVIII, 1959, pp 113-116. | Navy Tr 3598 HO 197 |
| The Color of Marine Populations at Various Depths, by N. N. Kondakov. RUSSIAN, per, Trudy Okeanograf Komissii, Ak Nauk SSSR, Vol XIV, 1962, pp 39-42. | *Navy/HO 213 |
| The Significance of a Diver's Work When Studying the Distribution and Amount of Algae in the Seas of the USSR, by M. S. Kireyeva. RUSSIAN, per, Trudy Okeanograf Komissii, Ak Nauk SSSR, Vol XIV, 1962, pp 69-73. | |
| Underwater Observation of Sublittoral of the Barents Sea, by M. V. Propp. | *Navy/HO 214 |
| RUSSIAN, per, Trudy Okeanograf Komissii, Ak Nauk SSSR, Vol XIV, 1962, pp 73-75. Movement of Kharkov State Institute of Measures and | *Navy/HO 215 |
| Measuring Instruments Quartz Clocks and the Irregularity of Earth's Rotation During 1951-1957, by V. I. Turenko, 12 pp. | |
| RUSSIAN, per, Tsirkular Khar'kov, Astron Observ, No 42, 1961, pp 14-24. 9687641 | FTD-TT-63-542 |

Selected Articles From the Russian Periodical Uchenyye Zapiski LGU, Voprosy Geofiz, No 13, 1962.

JPRS 21641

Measurement of the Components of the Earth's Magnetic Field by the Proton Resonance Method, by V. D. Lomanyy, A. G. Prokof'yev, 15 pp, (pp 3-15).

The Use of Natural Electromagnetic Pulsations for Investigation of the Earth's Upper Layers, by M. N. Berdichevskiy, B. Ye. Bryunelli, 8 pp. (pp 49-55).

Construction of Magneto Telluric Sounding Curves From Records of Short-Period Pulsations of the Earth's Natural Electromagnetic Field, by A. A. Kovtun, 13 pp, (pp 56-66).

The Influence of the Earth-Air Discontinuity on the Electric Field of a Polarized Sphere, by G. A. Tarasov, 5 pp, (pp 222-225).

Work in Antarctica, by Ye. I. Tolstikov, 9 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 5, 1963, pp 79-82.

JPRS 21531

Recent Data on the Stratigraphy of the North Karelian Zone of the Proterozoic Era, by Yu. B. Bogdanov, A. S. Noynov.
RUSSIAN, per, Vest Leningrad Univ, No 24, 1962, pp 5-16.

ACIC

The Khvalyn Sea Terraces of the Mangyshlak Coast and the Problem of Studying Neotectonic Movements of the Peninsula, by V. S. Myakokin.

RUSSIAN, per, Vest Mosk Univ, Ser V Geograf, No 2, 1963, pp 26-30.

*ACSI I-3585-A ID 2250305

Some Considerations on Methods of Computing the Future Regime of the Caspian Sea Level, by B. A. Apollov, S. S. Remizova. RUSSIAN, per, Vest Mosk Univ, Ser V Geograf, No 2, 1963, pp 62-65.

*ACSI I-3585-B ID 2250305

The Hydrology of Bulgaria, by Ivanov, Marinov. BULGARIAN, bk, Khidrologiya na Bulgariya, 1961, pp 3-313.

*ACSI I-3601 ID 2250277

Certain Features of Turbulent Exchange in the Ground Layer During Winter in Peking, by Chao Ber-lin, 15 pp.
CHINESE, per, Pei-ching Ta-hsueh Hsueh-pao; Tzu-jan K'o-hsueh, Vol II, No 4, 1956, pp 479-488. 9213311

Emmanuel Coll Res Lang Ctr E-T-Ch-63-7

Statistical Theory of the Microphysical Mechanisms of Formation of Rain in Warm Clouds, by Chou Hsiu-chi, 17 pp.

CHINESE, per, Scientia Sinica, Vol XII, No 8, 1963, pp 1197-1211.

JPRS 21691

Distribution and Improvement of China's Saline Soils, by Huang Chen-kuo, Mu Jung-mei-hsiung, 18 pp. CHINESE, per, Ti-li, No 1, 1963, pp 12-17.

JPRS 21478

Introducing the Book China's Climatic Conditions, by T'an Kuan-jih, Weng Tu-ming, 5 pp. CHINESE, per, <u>Ti-li</u>, No 3, 1963, pp 143, 144.

JPRS 21478

The Accuracy of the Relative Measurements of Gravity Carried Out With the Eotvos' Torsion Balance, by Karl Oltay.

GERMAN, bk, Die Genauigkeit der mit der Eotvos Schen Drehwaage Durchgefuehrten Relativen Schwerkraftmessungen.

ACIC

Relative Determination of the Force of Gravity at Budapest, by Karl Oltay.

GERMAN, bk, Relative Bestimmung der Schwerkraft in Budapest.

ACIC

The High Complex Wind Sea Near the North Atlantic Weather Ship K on 6 December 1959, by II. Walden. GERMAN, per, Deutsch Hydrographische Zeitschrift, Vol XIV, No 6, 1961, pp 239-247.

*Navy/HO 212

Tritium and Deuterium in Atomspheric Hydrogen, by Bernhard Gonsior, Irving Friedman, 12 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIa, No 12, 1962, pp 1088-1091.

AEC-NP-Tr-1048

Basic Gravimetric Measurements in the Northeastern Poland, by Romuald Wieladek.
POLISH, bk, Podstawowe Pomiary Gravimetrycne w
Po'lnocho-Wschodniej Polsce.

ACIC

Measurements by Means of Four-Pendulum Instrument on Stations of the Eastern Part of the Pendulum Gravity Network in Poland, by Zbignew Zabek, Wanda Dobaczewska.

POLISH, bk, Pomiary Aparatem Czterowahadlowym na Punktach Wschodniey Czesci Sieci Wahadlowey w Polsce.

ACIC

Organization and Activities of the State Institute of Hydrology and Meteorology, by Julian Lambor, 33 pp. POLISH, per, Nauka Polska, Vol XI, No 3(45), 1963, pp 113-138.

Scientific Electronics

Automatic Measurement of Coordinates, by A. A. Korostelev. (NY-7931) RUSSIAN, bk, Avtomaticheskoye Izmereniye Koordinat, Moscow, 1961, pp 1-103.

*JPRS

Absorption of Radio Waves by Air Behind a Shock Wave, by T. V. Bazhenova, Yu. S. Lobastov, 9 pp. RUSSIAN, bk, Fizicheskaya Gazodinamika Terloobmen i Termodinamika, 1962, pp 120-130.

ACSI I-2702 ID 2235127

Analysis and Calculations of Amplifier Circuits, by P. Ya. Nagornyym.
RUSSIAN, bk, Gosudarstvennoye Izdatel'stvo Tekh Literatury, 1963, 244 pp.

*FTD-TT-63-1011

A Thickness Monitor for Thin Films Obtained by Vacuum Spraying, by A. A. Korsunskiy, I. G. Razumnov, 19 pp.
RUSSIAN, bk, Indikator Tolshchiny Tonikh Sloyev, Poluchayemykh Metodom Vakuumnogo Raspyleniya Materialov, Moscow, 1961, pp 1-14, 9688772

FTD-TT-62-1863

Operation of Steam Generators in the First Atomic Power Plant, by G. N. Ushakov, V. B. Lytkin, et al, 14 pp. RUSSIAN, bk, Iz Opyta Ekspluatatsii Parogeneratorov

AEC-Tr-5887

Cold-Cathode Tubes, by L. N. Korablev, 233 pp. RUSSIAN, bk, Lampy s Kholodnym Katodom, Moscow, 1961, pp. 3-175. 9689303-V

Pervoi AES, 1963. 9213644

FTD-TT-63-422

The Combined Use of Pulse Attributes in Protected Circular Signals, by Yu. Tomfel'd, 25 pp. RUSSIAN, bk, Promyshlennaya Telemekhanika, Moscow, 1960, pp 115-129. 9687227

FTD-TT-63-528

Selected Articles From the Russian Book
Tsifrovyye Vychislitel nyye Mashiny, 3rd Ed., 1961.

*ACSI I-3538 ID 2250282

- A. Basic Operating Principles of Punch Card Computers, by I. S. Yevdokimov, G. P. Yevstingneyev, et al, (pp 133-141).
- B. The P80-6 Perforator, (pp 167, 168).
- C. Summarizing Perforators IP5-45 and IP-80, (pp 188-190).
- D. K45-6 and K80-6 Verifiers, (pp 218, 219).

Scientific Electronics (Contd)

| Selected Articles From the Russian Book Tsifrovyye Vychislitel'nyye Mashiny, 3rd Ed. 1961. (Contd) | *ACSI I-3538 ID 2250282 |
|--|---------------------------------------|
| E. S45-5 and S80-5 Sorters, (pp 240-242). | |
| F. The T-5M Tabulator, (pp 275-277). | |
| G. The PR 80-2 Reproducing Device, (p 386). | |
| Prime Cost of One Kilowatt Hour of Electric Energy, by A. Avrukh, G. Kruglov, 11 pp. RUSSIAN, np, Ekon Gazeta, No 36, 7 Sep 1963, pp 8, 9. | JPRS 21552 |
| Technical Process in Planning Thermal Electric Power Stations, by I. Alekseyev, 9 pp. RUSSIAN, per, <u>Ekon Stroitel</u> , No 8, 1963, pp 29-35. | JPRS 21552 |
| Operating Experiences With Vilite Surge Diverters, by D. V. Shishman, A. A. Gurevitch. RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 12, 1962, pp 46-51. | NLL Ref. 9022.03 1963 (3,311) |
| On the Preparation to the Autumn-and-Winter Load Maximum, 5 pp. RUSSIAN, per, Energetic, No 8, 1963, pp 1-3. | JPRS 21552 |
| Self-Oscillations in Circuits With Thermistors, by A. G. Shashkov. RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol V, No 11, 1962, pp 64-73. | *AEC |
| The Use of Electromagnetic Pumps in the Foundry, by L. A. Verte. RUSSIAN, per, Makhan i Automat Proiz, No 1, 1963, pp 40-42. | NLL Tr Bulletin Vol V, No 10, 1963 |
| Vast Hydroelectric Power Reserves on the Lena River, by V. Yarosh, S. Ya. Zhuk, 6 pp. RUSSIAN, per, Nauka i Zhizn', No 7, 1963, pp 20-23. | JPRS 21552 |
| Cybernetics in the Pocket, by V. Savchenko, 7 pp. RUSSIAN, per, Nauka i Zhitta, No 12, 1963, pp 20, 21. 9687655 | FTD-TT-63-766 |
| Apparatus for Measuring Electron Beam Profile, by Yu. V. Troitskiy, 8 pp. RUSSIAN, per, Pribory i Tekh Eksper, No 6, 1957, pp 113, 114. | AEC-NP-Tr-1054 |

Scientific Electronics (Contd)

The Power of Invisible Waves, by V. Borisov, 9 pp. RUSSIAN, per, Znaniye Sila, No 8, 1963, pp 19-21.

JPRS 21726

Capsule Propelled Miniature Motor for Taking Internal Measurements of Performing Operations by Electric Remote Control, by Joseph Paul d'Haens, 11 pp. BELGIAN, Patent No 617,519.

Patent Office

On the Electric Breakdown of Dielectrics, by J. G. Nekrasevic, J. A. Bakuto. CZECH, per, Ceskoslovensky Casopis Pro Fysiku, Vol XII, 1962, pp 583-589.

*AEC

Generation of a Pseudo-Random Gating Impulse by a Logical Shift Register With Binary Feedback, by T. E. Stern, Cazemajou, et al., 13 pp. FRENCH, rpt. 9213664

AEC-Tr-5901

Some General Laws of Electrodialysis, by E. Wegelin. FRENCH, rpt, Compte Rendu No 59 de l'Institut Central Technique T.N.O. Presente aux 13 mes Journees Internationales d'Etude des Eaux a Liege, du 29 Avril au 5 Mai, Liege, Belgique.

Dept of Interior TC823 A358 No 380

The Influence of Hyperfrequency Circuits on the Performance of a Coupled-Cavity Maser, by G. Broussaud, L. Malnar. FRENCH, bk, Low Noise Electronics, 1962, pp 200-224.

*Navy/APL J303

Patent No 534,963. High Frequency Decoupling Element for an Electric Conductor, 5 pp. FRENCH, rpt, Patent No 534,963. Element de Decouplage Haute Frequence Pour un Conducteur Electrique, 7 Nov 1958.

ACSI I-3548 ID 2250324

Study of the Electronic Structure of Rare Earth Metals, by Yves-Andre Rocher. FRENCH, per, Advances in Physics, Vol XI, No 43, 1962, pp 233-279.

*AEC

The Shaping of Test Electrodes According to Rogowski, by Carl Stoerk, 8 pp.
GERMAN, per, Elektrotechnika Zeitschrift, Vol LII,
No 2, 1931, pp. 43-45.

AEC-SCL-T-506

A Doppler Radar for Additional Sign-Discrimination of Velocity, by H. Rode, R. Stange, 16 pp. GERMAN, per, Hochfrequenz-Technik und Elektroakustik, No 1, Feb 1963, pp 25-31.

ACSI I-3228 ID 2244414

Scientific Electronics (Contd)

Instantaneous Value Combanding in Pulse Modulated Communication Systems, by W. Glaser, 39 pp. GERMAN, per, Nachrichtentechnik, No 3, 1961, pp 106-114. 9687636

FTD-TT-62-32

A 200 kw Electron Beam Multiple-Chamber Furnace, by M. von Ardenne, G. Jager. GERMAN, per, Neue Huette, Vol VIII, No 1, 1963, pp 2-5.

BISI 3239

Circuit Arrangement for Reduction of Temperature-Induced Fluctuations of an Electrical Magnitude, 7 pp.
GERMAN, Patent No 970,196.

Patent Office

Charge of the Positive Plate of Lead Storage Battery With Reference to the Change in the Size and Form of the Reacting Material, by Shigeo Hisano. JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXII, 1959, pp 376, 377.

*Navy/NRL

Changes, Produced by Electrolytic Reduction, in Size and Form of the Lead Compound With Little Solubility in the Electrolyte, by Shigeo Hisano. JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXII, 1959, pp 378-381.

*Navy/NRL

Ion-Sorption Pump With Cold Cathode, by C. Kiliszek, W. Czarycki, 6 pp.
POLISH, per, Przeglad Elektroniki, No 12, 1962, pp 698-701.

FTD-TT-63-702

Homopolar DC Motor for Quite High Voltage Especially a Generator or High Capacity Motor, by Stefan Janiczek, 8 pp. POLISH, Patent No 44923, 21, 25 Sep 1961, Class 21d¹, 6, pp 1-4. 9687226

FTD-TT-63-487

Elementary Communication Circuits With Magnetic Cones, by I. Alexiu.
RUMANIAN, per, Telecomunicatii, Vol VII, No 1,
Jan-Feb 1963, pp 12-18.

*ACSI I-3607 ID 2250315

Scientific Electronics (Contd)

Selected Articles From the Spanish Periodical Comunicaciones y Transportes.

No 22, 1963.
A. Telephone Communications in Republic of Mexico, by Carlos Mier Foster, (pp 11-26).

*ACSI I-3606 ID 2250313

- B. Microwave Systems, by Jose Trinidad Gomez Cruz, (pp 27-30).
- C. Phases of Radio Broadcasting in Mexico, by Matilde Anduaga de Fernandez, (pp 31-36).
- D. Mexican Radio Broadcasting at Present, by Ruben Camez Rodriguez, (pp 37-44).

No 23, 1963.

A. Microwave Telecommunications, by Juan M.R. Caraza, ID 2251741 (p 32).

*ACSI I-3701 ID 2251741 519th MI Bn

B. Microwave Systems, by J.T.G. Cruz, (pp 57-64).

Scientific Engineering

The Hydrodynamics of an Explosion, by Yu. S. Yakovlev, 338 pp. RUSSIAN, bk, Gidrodinamika Vzryva, Leningrad, 1961, pp 1-313, 9687676-V FTD-TT-63-381 Manufacture of Pipes by Pressing, by F. A. Danilov. A. Z. Gleyberg, 19 pp. RUSSIAN, bk, Goryachaya Prokatk Trub, Moscow, 1962, pp 525-541. 9688857 FTD-TT-63-715 Hot Mechanical Working of High-Speed Steels, by Yu. A. Geller. RUSSIAN, bk, <u>Instrumental'nye Stali, Metallurgizdat</u>, 1955, pp 322-332. **BISI 3165** Mechanics, by S. S. Tikhmenev, 296 pp. RUSSIAN, bk, Mekhanika, Moscow, No 104, 1961, pp 3-181, 9688863-V FTD-TT-63-254 Application of Hall Semiconductor Generators to Automation, by A. P. Pinsker, 104 pp. RUSSIAN, rpt, Primeneniye Poluprovodnikovykh Generatorov Kholla v Avtomatike, Kiev, 1961, ACSI I-2807 pp 64-122, Encl to R-139-62 OUSARMA, Czech, ID 2195625 8 Mar 1962. Calculations for Nonlinear Automatic Systems, by I. I. Krinetskiy, 231 pp. RUSSIAN, bk, Raschet Nelineynykh Avtomaticheskikh Sistem, Kiev, 1962, pp 1-225, 9688777-V FTD-TT-63-125 Calculation of the Basic Dimensions of a Single-Stage Centripetal Turbine, by M. V. Nosov, 87 pp. RUSSIAN, bk, Raschet Osnovnykh Razmerov Odnostupen-Chatoy Tsentrostremitel noy Turbiny, Moscow, 1961, p 3-83, 9688855 FTD-TT-63-682 Survey of Investigations on the Theory of Flexible Plates and Shells, Covering the Period From 1941 to 1957, by A. S. Vol'mir, 45 pp. RUSSIAN, bk, Raschet Prostranstvennykh Konstruktsiy, Moscow, Vol IV, 1958, pp 451-475, 9214389 NASA TT F-180 Turboprop Engines, by P. K. Kazandzhan, A. V. Kuznetsov, 341 pp. RUSSIAN, bk, Turbovintovyye Dvigateli, Moscow, 1961, FTD-TT-63-767 pp 1-264. 9687632-V

| The Steerability of a Ship, by K. K. Fedyayevskiy, G. B. Sobolev. (NY-7927) RUSSIAN, bk, Upravlyayemost' Korablya, 1963, pp 1-375. | *JPRS |
|--|----------------------------|
| Device for Automatic Control of Pulse Amplifier Amplification, by M. N. Sokhen. RUSSIAN, per, Byul Izobreteniy, No 20, 1960, pp 1-3, Soviet Patent No 150,875. | *ACSI I-3603 ID 2250310 |
| Asymmetric Ferrite Transistor Push-Pull Trigger, by Yu. A. Simetskiy, S. P. Kuznetsov. RUSSIAN, per, <u>Byul Izobreteniy</u> , No 18, 1962, pp 1-3, Description of <u>Soviet Patent No</u> 150,131. | *ACSI I-3637 ID 2251710 |
| A Mathematical Modeling Method for Speech Signal Transmission Systems, by R. D. Leytes, 19 pp. RUSSIAN, per, Elektrosvyaz, No 8, 1963, pp 32-41. | JPRS 21527 |
| An Analog-Digital Converter for Speech Signal Input to a Computer, by Yu. A. Laybman, V. N. Sobolev, 13 pp. RUSSIAN, per, Elektrosvyaz, No 8, 1963, pp 42-48. | JPRS 21527 |
| New Developments in Phototachymetry Equipment, by G. A. Feldman, 7 pp. RUSSIAN, per, Geodez i Kartograf, No 8, 1963, pp 62-66. | JPRS 21509 |
| The Problem of Protecting Rivers and Reservoirs From Pollution by Waste Water, by A. I. L'vovich. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 3, 1963, pp 35-44. | *ACSI I-3640 ID 2251713 |
| Selected Articles From the Russian Periodical Iz Vysshikh Ucheb Zaved Chern Metal. | |
| No 5, 1962. Blast Furnace Operating Experience at High Driving Rates, by N. G. Makhanek, A. S. Kukarkin, (pp 37-43). | НВ 6049 |
| Recording Ultrasonic Inspection Results, by Ya. I. Ioffe, (pp 200-206). | нв 5924 |
| No 12, 1962, pp 20-28. Hold-Up of Molten Materials in the Blast-Furnace Stock Column, by A. S. Kukarin, B. I. Kitayev. | НВ 5882 |
| No 5, 1963, pp 58-64. Study of the Basic Oxygen Process When Using Various Coolants, by V. V. Smiktiy. | НВ 5985 |
| | |

A Decoding Digit-to-Angle Converter With Intermediate Conversion, by N. A. Smirnov, V. B. Smolov, 15 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Elektromekh, No 5, 1963, pp 597-604.

JPRS 21553

Some of the Design Problems of the High-Accuracy Automatic Direct Current Potentiometers With Digital Indication, by E. Tenyakov. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Priborostroyeniye, Vol II, No 4, 1959, pp 38-45.

CSIRO/No 6016

Automatic Equipment for the Control of the Quality of the Heat-Treatment of Steel Components, by V. M. Shkol'nik.
RUSSIAN, per, Mekh Avtomat Proiz, No 12, 1961.

BISI 2693

Electrical Network Construction at Port Moorings, by L. Kirpichnikov, Kharif.
RUSSIAN, per, Morskoy Flot, No 3, 1963, pp 17-19.

*ACSI I-3636 ID 2251709

One Method of Determining the Criterion of Operational Stability of a Liquid-Propollant Rocket Engine, by G. I. Zamuruyev, 25 pp.
RUSSIAN, per, Moskov Vyssheye Tekh Uchilishche imeni N. E. Baumana, Mekhanika, No 92, 1959, pp 66-84. 9687657

FTD-TT-63-491

Basic Directions in Reliability Theory, by N. G. Bruyevich, V. Grabovetskiy, 11 pp. RUSSIAN, per, Priborostroyeniye, No 8, 1963, pp 3-6.

JPRS 21923

Displacement and Speed of Domestic Tankers of the Near Future, by V. M. Vekslet, 18 pp. RUSSIAN, per, <u>Sudostroyeniye</u>, No 3, 1963, pp 5-11.

Navy Tr 3617 ONI 959

Use of Silver Ions for Decontamination and Preservations of Fresh Water Aboard Ships, by I. I. Mamotenko. RUSSIAN, per, Sudostroyeniye, No 3, 1963, pp 19-21.

*Navy/ONI

Effectiveness of Gas Turbine Installations With Separate Delivery of Working Medium Aboard Sea-Going Ships, by V. Yu. Tokhoplav, 8 pp. RUSSIAN, per, Sudostroyeniye, No 3, 1963, pp 25-29.

Navy Tr 3616 ONI 958

On the Use of Rotating Diffusor Apparatuses in Centrifugal Compressor Machines, by S. P. Livshits, 14 pp.
RUSSIAN, per, Tepleonergetika, No 3, 1962, pp 25-29.
9687670

FTD-TT-63-809

Assembly of Trestle Type Prefabricated Piers, by D. E. Gurevich, A. G. Volik. RUSSIAN, per, <u>Transportnoye Stroitel</u>, No 2, 1963, pp 23-27.

*ACSI I-3635 ID 2251708

Anchorage of Deformed Reinforced Bars in Ordinary and Prestressed Reinforced Concrete, by T. I. Astrova.

RUSSIAN, per, Trudy Akademiya Arkhitektury SSSR, Nauchno-Issledovatel skiy Inst Betona i Zhelezobetona, No 23, 1961, pp 74-126.

The expression of the section of the

GB/21/LC 1123

Milking Machine With Controlled Pressure in the Interparietal Space of Teat Cups, by V. F. Korolev, 5 pp.
RUSSIAN, Patent No 117,465.

Patent Office

Method of Constructing Silos, Wells, and Other Circular Buildings, and Silos Thus Constructed, by Rudolf Ponninger, Friedrich Ostreicher, 5 pp. AUSTRIAN, Patent No 171,023.

Patent Office

Infrared Radiator, 7 pp. AUSTRIAN, Patent No 195,073.

Patent Office

Combination Fluid Flow Machine, in Particular a Blower, by Ernst Souczek, 9 pp. AUSTRIAN, Patent No 202,685.

Patent Office

Review of the Development of Hydraulic Research, by Ante Frankovic, 10 pp. CROATIAN, per, Gradjevinar, No 7, 1963, pp 234-238.

JPRS 21583

Chilled Cast Rolls for Rolling Mills, by O. Necas. CZECI, per, Slevarenstvi, Vol II, No 2, 1954, pp 34-43; Vol II, No 3, 1954, pp 72-74.

BISI 2466

Stationary Thermal Stress in Thin Cylindrical Walls, by C. Hoeschl, 14 pp. CZECH, per, Strojirenstvi, Vol XIII, No 4, 1963, pp 243-247. 9687663

FTD-TT-63-726

Despatch of Rolled Products, by A. E. Nientker. DUTCH, rpt, Paper Presented at the International Works Transport Conference, Paris, May 1963.

BISI 3413

| Selected Articles From the Dutch Periodical TNO Nieuws, No 209, Jul 1963. | *ACSI I-3634 ID 2251707 |
|---|----------------------------|
| A. Research on Thawing of Deep-Frozen Bread, by B. Belderok, W. H. G. Wiehols, (pp 377-385). | |
| B. TNO and the Medium-Sized and Small Enterprise, (pp 388-392). | |
| C. Research on and Development of Plastic Transportation Packaging for Dangerous Goods, (p 394). | |
| D. The Institute TNO for Packaging and the Pail, (p 394). | |
| Construction Contractors on a Trip to Study Norway, by E. Vierimaa, 6 pp. | |
| FINNISH, per, Voima Viesti, Vol XVI, No 2, 1963, pp 14-16. (Call No TK4 V85, V 16 No 2 Eng Tr) | Army Map Service |
| Circuit for Verifying Errorless Transmission of Teletype Characters, 6 pp. FLEMISH, Patent No 565,985 (Applied for 24 May 1958; Granted 24 Sep 1958; Published 29 Jul 1960), pp 1-9. | ACSI I-3457 ID 2246302 |
| Selected Articles From the French Report Paper Presented at the International Congress on Oxygen Steel Plants, Le Touquet, Dunkirk, Sep 1963. | |
| Present Position of Operation of the LDAC Process at Arbed Dudelange, by E. Glaesener. | *BISI 3443 |
| Refractories for LD Converters and Their Influence on the Operation of Large Size Units, by F. Savoili, G. Massobrio. | *BISI 3445 |
| Collection, Conditioning and Dust Collection From Gases of LOP Converters, by P. Debruille. | *BISI 3473 |
| Progress of the Kaldo Process at Sollac, by G. Decamps. | *BISI 3474 |
| Continuous Determination of Carbon Content of the Bath in the Pure Oxygen Blowing Processes, by J. Dumont-Fillon, F. Mangin, et al. | *BISI 3475 |

Selected Articles From the French Report Paper Presented at the International Congress on Oxygen Steel Plants, Le Touquet, Dunkirk, Sep 1963. (Contd)

Collection Without Combustion of Gas From an Oxygen Converter, by J. Dumont-Fillon, G. Namy, et al.

*BISI 3476

The Behaviour of Oxygen in the LD Converter, by J. E. de Graaf. *BISI 3478

Contribution to the Study of the Thermodynamic Equilibrium in the Pure Oxygen Converter, by *BISI 3480 J. M. Kindelan, J. Lindqvist.

Study of Cyanides, Scaffolding and Disintegrating in the BF. Stack, by Legeling. FRENCH, per, Centre de Documentation Siderurgique Circulaire d'Informations Techniques, No 3, 1953, pp 465-492. *BISI 3463

Enquiry Into Hot Blast Valves, by L. Chatet. FRENCH, per, Centre de Documentation Siderurgique, Circulaires d'Informations Techniques, Vol XIII, No 3, 1956, pp 549-554. BISI 3399

Analysis of Bubble Chamber Photographs, by J. Crussard, 16 pp. FRENCH, per, L'Onde Electrique, Vol XLI, 1961, AEC-UCRL-Tr-988 pp 1042-1046.

On the Stability of Rectangular Plates Reinforced by Stiffeners and Subjected to Bending and Shear, by Miodrag Milosavljevitch, 23 pp. FRENCH, per, <u>Publications of International</u> Association of Bridge and Structural Engineers,

DDC RSIC-86 Vol VIII, 1947, pp 141-160. 9689187

Artificial Building Construction Blocks Designated as Hugede Sanitary Panels, by Hugede, 10 pp. FRENCH, Patent No 113,385.

Patent Office

Process and Apparatus for Recuperation of Volatile Materials From Solutions Intended To Be Evaporated, by Wilhelm Vogelbusch, 12 pp. FRENCH, Patent No 709,044.

Patent Office

Improvements in Television Receiver Systems, 14 pp. Patent Office FRENCH, Patent No 817,537.

THE RESERVE AND PROPERTY.

Improvement in Negative Feedback Pushpull Amplifiers Comprising a Coupling Impedance in the Cathode Circuit, 7 pp. FRENCH, Patent No 892,851.

Patent Office

Machine for Forming and Profiling Machine-Produced Shapes, 7 pp. FRENCH, Patent No 962,436

Patent Office

Device for Detection of the Passage of Car Wheels on a Rail, 8 pp. FRENCH, Patent No 1,147,728.

Patent Office

Automatic Device for Delayed Opening of Parachutes, 19 pp. FRENCH, Patent No 1,178,079.

Patent Office

Gas-Tight Shaft Housing for a Shaft Rotating at High Speed. FRENCH, Patent No 1,213,456.

*AEC

Rules for the Calculation of the Heat Requirements of Buildings.
GERMAN, rpt, 1959.

GB/21/LC 1123

Applications of Conformal Representation to Practical Problems of Electrical Engineering, by Karl Frey, 98 pp. GERMAN, rpt, Arbeiten aus dem Elektrotechnischen Institut, 1925, pp 66-182.

ACSI 1-3296 ID 2244437

Selected Articles From the German Report
Paper Presented at the International Congress on
Oxygen Steel Plants, Le Touquet, Dunkirk, 23-26 Sep 1963.

Results and Experience With Blowing of Thomas Pig-Iron in OLP Converters at Dillingen, by K. H. Bauer.

*BISI 3471

Possibilities and Operational Advantages of Continuous Temperature Measurement in Steel Blowing Processes, by W. A. Fischer, H. J. Fleischer.

*BISI 3477

Collection of Dust-Containing Gases in the Steel-making Process of the Oxygen Blown Converter, by H. Hoff, J. Maatsch.

*BISI 3479

The Question of Steelmaking by the OLP Process, by W. Koehler, J. Schoop.

*BISI 3481

Selected Articles From the German Report
Paper Presented at the International Congress on
Oxygen Steel Plants, Le Touquet, Dunkirk,
23-26 Sep 1963. (Contd)

| • *** | |
|--|---------------------------------------|
| Fourteen Years of LD Practice With Special Reference to Variable Raw Material Charges, by R. F. Rinesch. | *BISI 3482 |
| Direct Insufflation of LD Dust Converter, by K. Rosner. | *BISI 3483 |
| Formation of Slags in Blowing Processes, by G. Tromel, E. Gorl. | *BISI 3484 |
| Rosearch Into the Permissible Oxygen Flow Rate in Steel Pipes, by W. Wegener. | *BISI 3485 |
| Heat Transfer Between Worked Surfaces, by Wolfgang Held, 22 pp. GERMAN, per, Allgemeine Warmetechnik, Vol VIII, No 1, 1957, pp 1-8. 9689085 | DDC RSIC-76 |
| The Reaction of Wustite Inclusions in Iron to Annealing, by W. A. Fischer, J. A. Schmitz. GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXIII, No 12, 1962, pp 817-826. | *BISI 3175 |
| Approximate Calculations of the Chemical Activity of Components of Turnery Systems Using a Limited Number of Initial Values, by W. Feldmann. GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXIII, No 12, 1962, pp 827-830. | *BISI 3176 |
| Importance of Heat Transfer Processes in Induced Draught Sintering, by M. Schenck, W. Wenzel. GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXIV, No 7, 1963, pp 493-496. | *BISI 3451 |
| Impact Crushing. Study of the Performance and Design of Impact Crushers, by E. Ehrhardt. GERMAN, per, Aufbereitungs-Technik, No 10, pp 437-446; No 11, 1962, pp 479-489. | CRL/T, 1244 |
| Oscillation and Stability in Surge Tanks With Air Cushion, by J. Greic. GERMAN, per, Die Bautechnik, Vol XXXVI, No 11, 1959, pp 405-415. | Dept of Interior TC823 A358 No 368 |

The Lining Problem of Basic Oxygen Steel Furnaces, by F. Kaltner, F. Hodl. GERMAN, per, Berg und Huttenmannische Monatshefte, Vol CVIII, No 7, 1963. HB 6041 Water Hydraulic Installations in Rolling Mills, by H. J. Pahnke. GERMAN, per, Blech, Part 2, Vol X, No 2, 1963, pp 58-67. *BISI 3234 Silicones in the Paint Industry, by K. Weigel. GERMAN, per, Farbe und Lack, Vol LXIX, No 2, 1963, pp 93-100. GB/39/HO 1763 New Sewage Treatment Plant in the Deutsche Shell Ag Hamburg-Harburg Refinery, by W. van der Emde. GERMAN, per, Gas und Wasserfach, Vol CIV, No 4, 1963, NZDIA pp 94-96. Measurement of Residual Stresses as a Means of Assessing the Damage Suffered by Materials Under Fatigue Loads, by G. Altmeyer, A. Peiter. GERMAN, per, Material-Prufung, Vol II, No 6, 1960, pp 198-207. HB 5838 New Hypothesis on the Effect of Cold Rolling Speed on Lubrication, by O. Pawelski. GERMAN, per, Rheologica Acta, Vol II, No 4, 1962, **BISI 3393** pp 273-280. Selected Articles From the German Periodical Stahl und Eisen. Vol LXXXII, No 20, 1962, pp 1335-1341. HB 5718 Measures for Increasing the Output of Electric Arc Furnaces, Part I, by A. Schoberl, W. Holzgruber. *BISI 3440 Vol LXXXIII, No 3, 1963, pp 398-406. Reheating Alloy Steels as Dependent on Composition, Dimensions and Position of the Ingot in the Furnace, by W. Reinmann. *BISI 3446 Vol LXXXIII, No 7, 1963, pn 921-929. Problems Concerning Dust Removal in Flue Gas From Arc Furnaces, by W. Muhlrad. *BISI 3456 Vol LXXXIII, No 17, 1963, pp 1051-1058. New Developments in Blast Furnace Technology in North America, by A. Send. Vol LXXXIII, 1963, pp 1169-1176. *BISI 3453

Decarburisation of Cold Rolled Silicon Steel, by

A. Mayar.

A New Type of Electro Dust Removal Plant, by H. Schnitzler. GERMAN, per, Staub, Vol XXIII, No 2, 1963, pp 78-83.

*BISI 3454

Influence of Road and Vehicle Dimensions on Car Body Motions and Dynamic Wheel Loads. Theoretical and Experimental Investigations of Oscillations, Part I, by M. Mitschke. GERMAN, per, Verein Deutscher Ingenieure Zeitschrift, Vol CXL, No 10, 1962, pp 361-372.

SACSIR/Ref: No 274

Influence of Road and Vehicle Dimensions on Car Body Motions and Dynamic Wheel Loads. Theoretical and Experimental Investigations of Oscillations, Part II. GERMAN, per, Verein Deutscher Ingenieure Zeitschrift, Vol CXL, No 10, 1962, pp 445-448.

SACSIR/Ref: No 274

Weatherproof Cellophane -- Production, Characteristics and Use, by W. Breitmoser, P. Bunge.
GERMAN, per, Die Verpackung, No 4, Jul, Aug 1963, pp 23-25.

*ACSI I-3531 ID 2246318 519th MI Bn

New Developments in Dispersion Type Air Separators, by W. Kayser. GERMAN, per, Zement-Kalk-Gips, No 11, 1962, pp 469-478.

CSIRO/No 6256

The Cyclone Type Separator With Circulating Air, by H. Jager.

GERMAN, per, Zement-Kalk-Gips, No 11, 1962, pp 479-485.

CSIRO/No 6257

The Advantages of the Speed-Controlled Air Separator, by J. Heyd.

GERMAN, per, Zement-Kalk-Gips, No 11, 1962, pp 486-489.

CSIRO/No 6258

Spring Suspension System for Motor Vehicles, by Hermine Lobinger, 5 pp.
GERMAN, Patent No 612,843.

Patent Office

Circuit Arrangement for Compensating the Dependence of the Resistance of a Magnetic Coil on the Temperature, by Fritz Bergtold, 6 pp. GERMAN, Patent No 722,566.

Patent Office

Process and Apparatus for the Continuous Manufacture of Endless Plates, Webs, or Foils From Foam Materials, Particularly Polyurethane Base Materials, by Rolf Moroni, 8 pp. GERMAN, Patent No 842,267.

Patent Office

Device for Lining Sausage Casings With Lard, by Richard Guigas, 5 pp. GERMAN, Patent No 913,033.

Patent Office

Nuclear Reactor With Filler Inserts, 5 pp. GERMAN, Patent No 1,033,808, Auslegschrift (DAS).

Patent Office

Moderator Tank in the Interior of the Vessel for a Heterogeneous Nuclear Reactor, by Hermann Kumpf, 6 pp. GERMAN, Patent No 1,062,836

Patent Office

Circuit for the Generation of a Negative Capacitance and for the Double Utilization of an Amplifier Tube, by Gerhard Wolf, 17 pp. GERMAN, Patent No 1,069,689.

Patent Office

Preservation of Standard Resistors at the National Electrotechnical Institute Galileo Ferraris, Turin, by M. Careggio.
ITALIAN, per, La Ricerca Scientifica, Vol I, No 2, 1961, pp 152-175.

CSIRO/No 6246

Installations of Earthing Systems, by R. Dalla Verde, P. Pavesi.
ITALIAN, per, 1'Elettrotecnica, Vol XL, No 5, pp 230-241.

NZDI A

What is the Minimum Cross-Sectional Area for an Earth-Wire.
ITALIAN, per, 1'Energia Elletrica, No 4, 1962, pp 318-326.

NZDI A

Baggage Carrier for a Motor Vehicle, Provided With an Unrolling Canvas Arrangement Which Entirely Covers the Vehicle, by Renato Alessandro Oliveti, 5 pp. ITALIAN, Patent No 506,548.

Patent Office

Underwater Gliding Craft for Transporting Deep Sea Divers and Frogmen, Also Designed for Sneak Attack, by Lapo Legat, 5 pp. ITALIAN, Patent No 591,010.

Patent Office

Continuous Temperature Measurement of an Electric Arc Furnace, by A. Yamaki.

JAPANESE, per, Denki Seiko, Vol XXXIII, No 4, 1962, pp 280-285.

*BISI 3462

On the Problem of the Theory of Elasticity for a Region Containing More Than Two Spherical Cavities, First and Second Reports, by Hiroshi Miyamoto, 20 pp.

JAPANESE, per, Japanese Society of Mechanical Engineers, Vol XXIII, No 131, 1957, pp 431-436.

DDC RS1C-69

Consideration at the Design Stage of Brittle Fractures in Welded Structures, by Y. Akita, 12 pp. JAPANESE, per, Journal of Society of Mechanical Engineers, Vol LXIII, 1960, pp 1632-1640. 9213602

AEC-TRG-Inf Ser-88(R)

Study of Ship Vibration and Oscillation Limits From the Viewpoint of Unpleasant Feelings of Passengers. Part 1. The Susceptibility of Human Beings to Motions, by T. Tomi.

JAPANESE, per, Kansai Zosen Kyokai Shi, Vol CXL, No 18, 1961.

GB/17/1505 (19,358)

Selected Articles From the Japanese Periodical Tetsu to Hagane.

Vol XLVIII, No 11, 1962, pp 1359-1362. Studies of Used Bricks Taken From Basic Oxygen LD Furnace Linings, by E. Homma, T. Onoda.

HB 5741

Vol XLIX, No 3, 1963. Rate of Rotation of Teeming Ladles Used in 1 Basic Oxygen LD Plant, by E. Hirao, R. Oya, (pp 403, 404).

HB 5932

Operating Results Obtained in a 130-Ton Basic Oxygen Furnace Equipped With an OG Gas Recovery System, by Sh. Morita, et al, (pp 405, 406).

HB 5933

Study of the Multiple-Specimen Creep Rupture Test, by T. Fujita, T. Sasakura, et al. (pp 627-629).

HB 5979

A Project of Basic Pendulum Network in Poland, by Jerzy Bokun, Jerzy Niewiarowski.

POLISH, bk, Projekt Podstawowej Sieci Wahadlowej w Polsce.

ACIC

Study of the Flow in the Channels of Axial-Flow Impulse Fans, by Jerzy Konrad Nowakowski, 34 pp. POLISH, per, Prace Instytutu Techniki Cieplanej, Vol IX, No 16, 1961, pp 33-56. 9687650

FTD-TT-63-71

Progress in the Construction of Electric Railway Rolling Stock, by Stanislaw Plewako, 6 pp. POLISH, per, Przeglad Kolejcwy Mechaniczny, No 9, 1962, pp 257-262.

ACSI I-2223 ID 2227664

Scientific Fuels & Propulsion

Use of Diesel Oils With Additives, by Cheorghi Andreyevich Morozov, 110 pp. RUSSIAN, bk, Primoneniye Dizelnyh Masels Prisadkami, Leningrad, 1962.

Navy Tr 3605 BuShips 824

The Use of Fuels and Lubricants, by N. N. Bobrov, P. I. Voropay.
RUSSIAN, bk, Primeneniye Topliva i Smazochnykh Materialov, Moscow, Chapter V, 1962, 346 pp.

*FTD-TT-63-1063

Preparation of Producer Gas Free of Tar, by M. K. Grodzovskiy, D. M. Samoylovich. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 1, 2, 1945.

Dept of Interior TN7 E57 No 681

Determination of Volatile Matter Content of Coke by Thermogravimetrical Analysis, by L. Dockalova, F. Kessler.
CZECI, per, Paliva, Vol XLII, No 12, 1962, pp 368-371.

CSIRO/No 6343

Observations in the Heating of Black Coal in a Coke Oven, by M. Pustal.
GERMAN, per, Bergakademie, Vol XII, No 1, 1960, pp 33-35.

CSIRO/No 5837

On the Genesis of the Katharina Seam in the Lower-Rhine Westfalen Hard Coal Basin, by C. Diessel.
GERMAN, per, Bergbau-Archiv, Vol XXII, No 3, 1961, pp 1-26.

CRL/T. 1204

The Gasification of Solid Fuel Under Pressure, by Otto Hubmann. GERMAN, per, Brennstoff-Chemie, Vol XL, No 3, 1959, pp 65-71.

Dept of Interior TN7 E57 No 696

Thermal Decomposition of Hard Coals as a Function of the Particle Size. I. Microscopic and Thermogravimetric Investigations, by H. Luther, B. Bussmann.
GERMAN, per, Brennstoff-Chemie, Vol XLIII, No 12, 1962, pp 353-361.

CRL/T. 1295

Influence of Drying and Preheating of Coking Coal on the Coking Process and the Characteristics of a Coke. II. Practical Application, by W. Baumann, D. Breidenbach. GERMAN, per, Brennstoff-Chemie, Vol XLIII, No 12, 1962, pp 362-365.

CRL/T. 1297

Scientific
Fuels & Propulsion (Contd)

Calculation of the Volumes of Stack Gas and Waste Gas From Cupolas, by H. Pacyna. GERMAN, per, Die Giesserei, Vol XLIX, No 6, 1962, pp 133-136.

HB 5612

Averaging of Raw Coals To Be Washed in a Ten-Compartment Mixing Bunker, by G. Grosskraubach, H. Kellerwessel.
GERMAN, per, Gluckauf, Vol XCVII, No 11, 1961, pp 631-635.

CRL/T. 1247

Properties and Behaviour of Greek Lignites in a Furnace, and Inferences on Boiler Construction and Operation, by C. Lefas.
GERMAN, per, Mitteilungen der Vereinigung der Grosskessel Besitizer, No 73, 1961, pp 243-251.

CSIRO/No 5957

Scientific Materials & Metallurgy

Intricate Investment Casting, by V. M. Korolev, V. M. Stepanov. (DC-10055)
RUSSIAN, bk, Fasonnoye Lit'ye po Vyplavlyayemym
Modelyam, Moscow, 1962, pp 1-158.

*JPRS

Carbide Phases in Tool Steels, by Yu. A. Geller. RUSSIAN, bk, Instrumental nye Stali, Metallurgizdat, 1955, pp 67-84.

BISI 3163

The Influence of Plastics Deformation on Structure and Properties, by Yu. A. Geller. RUSSIAN, rpt, Instrumental'nye Stali, Metallurgizdat, 1955, pp 248-260.

عداعت الدياعات عهد مستصفيت وراكات الأخاصة فيتاك التراك ومعالم والمتاكات

BISI 3164

Principles of Physical Powder Metallurgy, by V. S. Rakovskiy, 116 pp. RUSSIAN, bk, Osnovy Poroshkovogo Metallovedeniya, Moscow, 1962, pp 3-86. 9688864

FTD-TT-62-1562

Behavior of Exogenous Inclusions During the Casting and Solidification of 800-Kg Killed-Steel Ingots, Studied With Radio-Isotopes, by V. G. Kuklev, S. M. Gnuchev. RUSSIAN, bk, Slitok i Svoistva Stali, 1961, pp 61-68.

HB 5815

Comparative Characteristic of the Physical Features of Devonian and Carboniferous Deposits in Individual Cross Sections of Oil-Bearing and Non-Oil-Bearing Regions of the Russian Platform, by P. F. Milaushkin. RUSSIAN, bk, Sravnitel'naya Kharakteristika Fizicheskikh Svoystv Devonskikh i Kamennougol'nykh Otlozheniy v Otdel'nykh Razrezakh Neftenosnykh i Neneftenosny'h Rayonov Russkoy Platformy.

ACIC

Fissured Rocks and Their Physical Properties, by P. F. Milaushkin.
RUSSIAN, bk, Treshchinovatyye Porody i Ich
Fizicheskiye Svoystva.

ACIC

Dynamic Characteristics of the Power Source in Automatic Inert-Gas-Shielded Welding, by V. M. Shchitova, I. Ya. Rabinovich. RUSSIAN, per, Avtomat Svarka, Vol XI, No 1, 1958, pp 44-47.

HB 6034

The Effect of Electroslag Remelting on the Technical Plasticity of Iron-Nickel-Chromium Base Alloys, by M. V. Pridantsev, I. G. Sokolov, 9 pp. RUSSIAN, per, Avtomat Svarka, No 3, 1963, pp 7-12.

JPRS 21760

pp 29-32.

Production of Steels EI-736 and EI-961 by Electroslag Remelting, by G. A. Khasin, G. A. Vachugov, et al, 5 pp.
RUSSIAN, per, Avtomat Svarka, No 9, 1963, pp 78-81.

JPRS 21912 .

Effect of Stresses on the Quality of Silicide Coatings on Molybdenum, by V. Ye. Ivanov, Ye. P. Nechiporenko, et al., 7 pp. RUSSIAN, per, Fiz Metal i Metalov, Vol XIV, No 4, 1962, pp 574-577.

JPRS 21758

Dependence of the Anisotropy Constant of Nickel to Temperature and Saturation Magnetization, by I. M. Puzey, 6 pp. RUSSIAN, per, Fiz Metal i Metalov, Vol XV, No 1, 1963,

JPRS 21676

Thermodynamics of Tungsten Carbides, by V. I. Alekseyev, L. A. Shvartsman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal Gornoye Delo, No 1, 1963, pp 91-96.

CRL/T.1291

Role of Microdistortions in the Recrystallization of High-Melting Metal Powder Compacts While Being Sintered, by F. N. Alekseyeva, R. S. Matyushenko, et al.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk, Metal Gornoye Delo, No 1, 1963, pp 97-99.

HB 6009

Effect of Alloying Upon the Structure and Properties of Tungsten-Carbide Cobalt Compositions, by V. F. Funke, V. I. Tumanov, et al. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 5, 1961, pp 101-108.

HB 6036

Luminescence and Stimulated Emission of Neodymium-Activated Glass, by P. P. Feofilov,
A. M. Bonch-Bruyevich, et al., 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XVII,
No 4, 1963, pp 466-472.

ACSI I-2978 ID 2240822

Selected Articles From the Russian Periodical Iz Vysshikh Ucheb Zaved Chern Metal.

| 12 Tyssiikii ocheb Laved Chern Metal. | |
|--|----------------------------|
| Vol III, 1961, pp 120-125. Influence of the Carbon Content of Steel on Hydrogen Diffusion, by G. I. Batalin, A. L. Alyasny. | NZDIA |
| No 7, 1962, pp 110-113. The Unequal Deformation Which Results When Rolling Bimetals, by I. M. Pavlov, Yu. N. Ledenev. | *BISI 3449 |
| No 10, 1962, pp 31-41. Experiments on the Top Blowing of Metal Baths, Based on Models, by V. I. Baptizmanskiy. | HB 5784 |
| No 3, 1963, pp 70-76. Behavior of the Components of Stainless Steel During Vacuum Melting, by B. V. Linchevskiy. | HB 5553 |
| No 4, 1963, pp 20-26. On a Standard Method of Determining the Reducibility of Iron-Ore Sinters, by V. I. Korotich. | НВ 5955 |
| No 5, 1963. IMET Fluid-Bed Reduction Process for Metal Oxides, by N. S. Vavilov, (pp 26-33). | HB 5983 |
| Deoxidizing Capacity of the Rare-Earth Metals Lanthanum, Cerium, Praseodymium and Neodymium, by G. Kinne, A. F. Vishkarev, (pp 65-69). | НВ 5984 |
| Present Position and Prospects of the Protection of Apparatus Against Corrosion, by E. Bartunek. RUSSIAN, per, Khim Mashinostroyenie, No 4, 1962, pp 22-25. | GB/121 |
| Aerosol Pulsating Unit AAP-0.5 Mikron, by G. I. Kolyada, 5 pp. RUSSIAN, per, Mashinostroyeniye, No 4, Jul, Aug 1963, pp 102-104. | JPRS 21784 |
| Republic-Wide Conference in Minsk on the Application of the Rare Metals, by Ye. A. Ul'yanin, 5 pp. RUSSIAN, per, Metal i Term Obra Metallov, No 8, 1963, pp 62, 63. | JPRS 21636 |
| New Formulas For Calculating Certain Physical Characteristics of Substances, by B. N. Oshcherin. RUSSIAN, per, Poroshkovaya Metallurgiya, Vol II, No 6, Nov, Dec, 1962, pp 3-11. | *ACSI I-3683 ID 2251731 |

pp 87-89.

Determination of the Specific Pressure During the Rolling of Metal Powders, by G. A. Vinogradov, V. P. Katashinskiy. RUSSIAN, per, Poroshkovaya Metallurgiya, No 3, 1963, **HB 6073** pp 30-36. Electroslag Remelting of Heat-Resistant Stainless Steels, by V. V. Topilin, M. M. Klyuyev, et al., 13 pp. RUSSIAN, per, Stal, No 9, 1963, pp 805-809. JPRS 21912 Influence of the Rare Earth Elements of the Properties of High-Temperature Nickel-Base, by T. V. Svistunova, G. V. Estulin, 10 pp. RUSSIAN, per, Stal, No 9, 1963, pp 835-838. JPRS 21895 Effect of Alloying Elements on the Weldability of High-Strength Steels, by A. S. Astaf'yev, A. P. Gulyayev, et al., 11 pp. RUSSIAN, per, Svaroch Proiz, No 5, 1963, pp 6-9. JPRS 21896 Electroslag Welding of Ship Parts, by G. V. Nazarov, 8 pp. RUSSIAN, per, Svaroch Proiz, No 8, 1963, pp 22-25. JPRS 21485 Electroslag Welding of Press Shafts With a Plate Electrode, by Yu. N. Zaytsev, 8 pp. RUSSIAN, per, Svarochnoye Proiz, No 8, 1963, pp 25-28. JPRS 21485 The Deposition of Vacuum Coatings by Means of Electron Bombardment, by V. K. Pereverzev. RUSSIAN, per, Trudy Inst Metallurgii imeni A. A. Baykova, Ak Nauk SSSR, No 11, 1962, pp 209-220. NASA TT F-185 9212513 Investigations of Oxidation of Alloys on a Niobium Base, by V. I. Grigorovich, A. I. Dedyurin. RUSSIAN, per, Trudy Inst Metal imeni A. A. Baykova Metall, Metalloved, Fiz-Khim Metody Issled, Moscow, No 12, 1963. *FTD-TT-63-1020 An Investigation of Some Conditions for Hot Rolling Molybdenum in a Vacuum, in an Argon Atmosphere and in Air, by I. M. Pavlov, Ya. B. Gurevich, 8 pp. RUSSIAN, per, Tsvetnyye Metally, No 2, 1963, JPRS 21757 pp 68-71. Conference on Dredge Construction, by I. F. Baryshnikov, 5 pp. RUSSIAN, per, Tsvetnyye Metally, No 3, 1963,

JPRS 21636

Brazing With High-Temperature Solders, by V. A. Gorokhov, M. I. Skripov, 11 pp. RUSSIAN, per, <u>Vest Mash</u>, No 7, 1955, pp 47-51.

JPRS 21927

Theoretical Basis of the Synthesis of Sitall
From Slag, by I. I. Kitaygorodskiy, 17 pp.
RUSSIAN, per, Zhur Vses Khim Obshchestov imeni
D. S. Mendeleyeva, Vol VIII, 1963, pp 192-197. 9687658

FTD-TT-63-753

Characteristics of Krasnozem and Its Improvement and Use, by Ho Tien-yuan, 21 pp. CHINESE, per, Chung-kuo Nung-yeh, No 5, 1963, pp 18-23.

JPRS 21930

Aeschynite Minerals, by Chang P'ei-shan, 16 pp. CHINESE, per, Ti-chih Hsueh-pao, Vol XLIII, No 1, 1961, pp 90-96.

JPRS 21587

Relationships Between the Case Depth, the Section Size, and the Fatigue Strength of Case-Carburized Steels, by H. Tauscher.

CZECH, rpt, Symposium on Fatigue Damage in Machine Parts, Prague, 1960, pp 238-247.

HB 6042

Inventory Control of Spare Parts in the Steel Industry, by M. Melese, Barache. FRENCH, rpt, Proceedings of the Second International Conference on Operational Research, 1960, pp 309-321.

BISI 3337

Behavior of Electrodes in a Molten Salts Medium, by Roberto Piontelli. FRENCH, per, Comptes Rendus, No 242, 1956, pp 1301-1303.

Dept of Interior TN7 E57 No 687

Simple Method for Preparing Nitrides of the Actinide Metals and the Rare Earths, by F. Anselin, 5 pp. FRENCH, per, Comptes Rendus, Vol CCLVI, No 12, 1963, pp 2616-2619. 9213606

AEC-HW-Tr-55

Diffusion of Plutonium and Uranium in Magnesium, by D. Calais, M. Beyeler, et al. FRENCH, per, Comptes Rendus, Vol CCLVII, 1963, pp 1285-1287.

*AEC-HW-Tr-61

Initiation and Propagation of Detonation, Initiations Associated With Shock, by J. Favier, C. Fauquignon. FRENCH, per, Memorial des Poudres, Vol XLII, 1960, pp 65-81.

Dept of Interior TN7 E57 No 685

The Phenomena of Beading and Flattening of the Rolls in Four-High Mills, by B. Fazan. FRENCH, per, Revue de Metallurgie, Vol LVII, No 11, 1960, pp 1003-1018.

BISI 3341

Production of Carbon Steel by the OLP Process, by P. Cesselin, J. M. Kindelan. FRENCH, per, Revue de Metallurgie, Vol LX, 1963, pp 237-249.

*BISI 3457

Nozzle for Vacuum Casting of Steel, by J. Chedaille, M. Sivet.
FRENCH, per, Revue de Metallurgie, No 7, 8, 1963, pp 663-668.

*BISI 3458

Study of the Action of a Gaseous Jet on the Free Surface of a Liquid, by F. Mathieu. FRENCH, per, Revue Universelle des Mines, Vol XVI, No 7, 1960, pp 309-321.

*BISI 3450

Technical Development of Rolling Mill Rolls, by J. Leonard.

FRENCH, per, Revue Universelle des Mines, Vol XVIII, No 12, 1962, pp 680-690.

BISI 3353

Reaction-Sinter Process and Applicable Sintering Materials for High-Temperature Technics, by Eberhard Meyer-Hartwig, 8 pp. GERMAN, bk, Jahrbuch 1959 Wissenschaftliche Gesellschaft fuer Luftfahrt E.V., 1959, pp 390-394.

ACSI I-2433 ID 2229447

Selected Articles From the German Report Metallurgische Verarbeitung von Altmetallen und Ruckstanden, Vol I, 1948.

Other Refining Processes, by Edmund R. Thews, (pp 66-69).

Dept of Interior TN7 E57 No 693

Other Processes for Refining Lead, by Edmund R. Thews, (pp 157-160).

Dept of Interior TN7 E57 No 692

Battery Scrap, by Edmund R. Thews, (161-166).

Dept of Interior TN7 E57 No 691

Removal of Antimony From Babbitt Metal, by Edmund Thews, (pp 202-204).

Dept of Interior TN7 E57 No 689

| Metallurgical Research in the August-Thyssen-Hutte Oxygen Plant, by K. Behrens, T. Kootz. GERMAN, rpt, Paper Presented at the International | |
|--|------------|
| Congress on Oxygen Steel Plants, Le Touquet, Dunkirk, 23-25 Sep 1963. | *BISI 3472 |
| Sizing Materials for the Textile Industry, by E. Freizer. | |
| GERMAN, per, <u>Adhesion</u> , Vol V, No 10, 1961, pp 505-512. | GB/39/Nob |
| Sizing Materials for the Textile Industry, by E. Freizer. | |
| GERMAN, per, Adhesion, Vol V, No 11, 1961, pp 564-577. | GB/39/Nob |
| Sizing Materials for the Textile Industry, by E. Freizer. | |
| GERMAN, per, Adhesion, Vol V, No 12, 1961, pp 617-622. | GB/39/Nob |
| Selected Articles From the German Periodical Archiv fuer Eisenhuttenwesen. | |
| Vol XXXIII, No 1, 1962, pp 67-76. Mathematical Statistics in Iron and Steelmaking Plants, II - Planning and Evaluation of Trails and Operating Records, by H. Knuppel, A. Stumpf. | BISI 3324 |
| Vol XXXIII, No 12, 1962, Investigations on Intermittent Precipitation in Carbon and Nitrogen Alloyed Austenitic Iron- | |
| Chromium-Manganese-Nickel Alloys, by M. Nacken, K. Muller, (pp 863-872). | *BISI 3178 |
| Determining the Equilibria in the Ternary System Iron-Cobalt-Manganese, by W. Koster, M. Speidel, | |
| (pp 873-876). | *BISI 3179 |
| Vol XXXIV, No 3, 1963, pp 159-166. The Behaviour of Heat-Resisting Ferritic Steels in the Creep Test Under Varying Temperatures, by W. D. Ropke. | BISI 3261 |
| Vol XXXIV, No 5, 1963, pp 361-366. Determination of Gases in Ferroalloys and in | HB 6003 |

Alloying Metals, by A. Fuchs, H. Reinhard.

Vladimir Davidoff.

1960, pp 414-418.

GERMAN, per, Chemische Technik, Vol XII, No 7,

Selected Articles From the German Periodical Archiv fuer Eisenhuttenwesen. (Contd)

Vol XXXIV, No 7, 1963, pp 531-546. *BISI 3439 The Effect of Boron on the Precipitation Processes and Creep Behaviour of Niobium Containing Austenitic Chrome-Nickel-Molybdenum Steels, by K. Bungardt, G. Lennartz. Vol XXXIV, No 8, 1963, pp 583-590. *BISI 3455 Microanalysis of the Alloying Elements of Steel by Means of Paper Chromatography, by J. Bruch, A. Wutschel. Various Failures in Boiler Pipes, by R. Westhausser. GERMAN, per, Bander Bleche Rohre, No 4, 1963, pp 174-178. BISI 3359 The Determination of Moisture in Coke With Neutrons, by H. Dresia. GERMAN, per, Brennstoff-Chemie, Vol XLIII, No 3, Dept of Interior 1962, pp 86-88. TN7 E57 No 697 Polymerization and Chemisorption of Ethylene and Propylene by Bituminous Coal, by Carl Kroger, Rabe Hans Georg. GERMAN, per, Brennstoff-Chemie, Vol XLIII, No 6, 1962, pp 179-185. Dept of Interior Synthesis of Octyl Alcohol From Cracked Gasoline With Carbon Monoxide and Hydrogen, by Joseph Berty, et al. GERMAN, per, Chemische Technik, Vol IX, 1957, Dept of Interior TN7 US2 No 2013 pp 283-286. Hydrogenation in an Homogeneous Phase, by Vladimir Davidoff. GERMAN, per, Chemische Technik, Vol XI, No 8, 1959, Dept of Interior TN7 U52 1990 pp 431-440. Extraction of Oxo-Alcohols From Distillates, by

Dept of Interior

TN7 US2 No 2049

Production and Properties of Wood Chip Materials With Oriented Strength, by W. Klauditz, et al. GERMAN, per, Holz als Roh- und Werkstoffe, Vol XVIII, 1960, pp 377-385.

GB/226

Testing the Distribution of Aluminium in Steel by Means of Radioisotopes, by J. Fodor, T. Jozsef, et al., GERMAN, per, Isotopentechnik, Vol II, No 3, 1962, pp 83-85.

*AERE-Harwell-1954

Plasticity and Thixotropy of Fractionated Clay Minerals, by H. Platen, H.G.F. Winkler, 41 pp. GERMAN, per, Kolloid Zeitschrift, Vol CLVIII, pp 3-22.

Natl Bu of Stand

Measuring Ultrasonic Attenuation as a Means of Quality Control of Steel Products and Steel Castings, by K. Krainer. GERMAN, per, Materialprufung, Vol IV, No 12, 1962, pp 463-469.

BISI 3378

Rhenium, by J. Sagoschen, 15 pp. GERMAN, per, Metall, Vol XVI, 1962, pp 1193-1195.

AEC-Tr-6021

Viscose Rayon - Investigation of the Problem of Streaky Dyeing, by E. Korper. GERMAN, per, Melliand Textilberiche, Vol XLIII, 1962, pp 1186-1187.

GB/121

The Determination of Very Low Carbon Content in Steels, by L. Wetternik.
GERMAN, per, Microchimica Acta, Vol V, 1954, pp 509-521.

*BISI 3444

Experimental Aftertreatment of Liquid Pig Iron Outside the Blast Furnace, by R. Ebert, W. Wenzel. GERMAN, per, Neue Huette, Vol VII, No 11, 1962, pp 665-670.

HB 5829

Preserved Food Cans From Anodized and Prelacquered Aluminium Strip, by J. H. Mantle. GERMAN, per, Neue Verpackung, Vol XV, No 7, 1962, pp 811-817.

CRL/T. 1289

X-Ray Diffraction of Crystals Containing Dislocations, III., by M. Wilkens. GERMAN, per, Physica Status Solidi, Vol III, No 9, 1963, pp 1718-1737.

*AERE-Harwell-1955

| The Present State of Continuous Casting in Europe, by B. Tarmann. GERMAN, per, Radex Rundschau, Vol II, No 4, 1963, pp 415-420. | BISI 3268 |
|--|-------------|
| Effect of Melting Under Reduced Pressure on Some Properties in Steel, by K. Bungardt. GERMAN, per, Schweizer Archiv, Vol XXVIII, No 12, 1962, pp 485-490. | HB 5864 |
| Selected Articles From the German Periodical Stahl und Eisen. | |
| Vol LXXXII, No 1, 1962, pp 46-54. Fundamentals of Production Balance Methods, by E. Liebel. | CRL/T. 1262 |
| Vol LXXXII, No 23, 1962, pp 1641-1647. Replacement of Sinter by Pellets With Fully Prepared Burden, by G. Heynert. | CRL/T. 1236 |
| Vol LXXXII, No 23, 1962, pp 1682-1684; No 24, 1962, pp 1747-1751. New Developments in Test Methods of Determining Steel Weldability and Susceptibility to Brittle Fracture, by K. L. Zeyen. | CRL/T. 1238 |
| Vol LXXXIII, No 3, 1963, pp 356-358. Process for the Production of Plastic-Coated Steel Strip, by G. von der Dunk, B. Meuthen. | BISI 3335 |
| Vol LXXXIII, No 9, 1963. The Influence of Working Practice on the Metallurgical Processes in Basic Siemens-Martin Steelmaking, by G. Tromel, W. Ullrich, (pp 1226-1234). | *BISI 3452 |
| Influence of Deformation of Characterisitcs on Material Flow and on the Yield in the Rolling of Thick Slabs, by E. Ritter, W. Dahl, (pp 1235-1250). | *BISI 3448 |
| A New Wet Method for Separation of Very Fine Dust, by J. Pallinger. GERMAN, per, Staub, Vol XXII, No 7, 1962, pp 270-275. | BISI 3277 |
| Observations on the Corrosion of Stainless Steels in Sulphuric Acid Under Potentiostatic Conditions, by W. Schwenk. | |
| GERMAN, per, Werkstoffe und Korrosion, No 8, 1963, pp 646-654. | *BISI 3459 |

Solubility of Lithium in Magnesium, by Wilhelm Hofmann,

GERMAN, per, 2 fuer Metallkunde, Vol XXVIII, No 6, 1936, pp 160-163. 9689083

DDC RSIC-63

The Spreading of Liquid Metals on the Surface of Solid Metals, I. GERMAN, per, 2 fuer Metallkunde, Vol LII, No 2, 1962, pp 122-130.

*AERE-Harwell-1952

Grain Size Determination of Tungsten Powders in the Subsieve Range, by W. Bohmer, H. Duker. GERMAN, per, Z fuer Metalikunde, Vol LIII, 1962, pp 529-534.

GB/245

Corrosion of Metals. HUNGARIAN, bk, Korrozios Figyelo, Vol III, No 4, 5, 1963, 100 pp.

FTD-TT-63-1069

The Use of Oxygen in Open-Hearth Furnaces, by G. Violi. ITALIAN, per, Metallurgia Italiana Atti Notizic, Vol XVIII, No 4, 1963, pp 106-110.

BISI 3390

A Mineralogical Study of Limonites From Japan, by Matsue Nambu. JAPANESE, per, Bulletin Research Inst Mineral

Dressing and Metallurg, Vol XI, 1955, pp 35-36.

*BISI 3447

Order and Disorder in BI-Metallic Alloys and Lattice Vibrations, by T. Oguchi, K. Hiroike, 12 pp. JAPANESE, per, Busseiron Konkyu, Vol XXXIII, 1950, pp 37-46. 9689089

DDC RSIC-80

On Fluoro-Carbon Surface Active Agents, by Komori Saburo. JAPANESE, per, Journal of Japan Oil Chemists' Society, Vol X, No 1, 1961, pp 2-5.

*AEC-SCL-T-515

Titanium-Iodine System, by Koyuemon Funaki, Takataro Uchimura, et al, 20 pp. JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXIV, 1961, pp 129-137.

AEC-Tr-6007

A New Method of Observing Austenite Grains, and Grain-Growth Inhibition of A# -Killed Steel; Part I. Relation Between the Coarsening of Fine Grains of Al-Killed Steel and the Solubility of Al in 7-Iron, by K. Endo, T. Otake. JAPANESE, per, Nippon Kinzoku Gakkai-Si, Vol XIX, Feb 1955, pp 51-54.

*BISI 3460

| A New Method of Observing Austenite Grains, and |
|--|
| Grain-Growth Inhibition of A& -Killed Steel, |
| Part II. Effect of Heat Treatment on the Austenite |
| Grain Growth Behaviour, by K. Endo, T. Otake. |
| JAPANESE, per, Nippon Kinzoku Gakkai-Si, Vol XIX, |
| Jun 1955, pp 389-392. |
| |

*BISI 3460

A New Method of Observing Austenite Grains, and Grain-Growth Inhibition of A& -Killed Steel.
Part III On the Fineness of Grain Size and Mechanism of Grain Coarsening, by K. Endo, T. Otake.
JAPANESE, per, Nippon Kinzoku Gakkai-Si, Vol XIX, Jun 1955, pp 393-395.

*BISI 3460

Studies on Silicone Resin (6) Preparation of New Organosilicon Polymer, by Kojima Kuniharu.

JAPANESE, per, Shika Zairyo Kenkyusho Hohoku, Tokyo, Vol II, No 4, 1962, pp 375-387.

*AEC

Selected Articles From the Japanese Periodical Tetsu to Hagane.

| Vol XLVIII, No 11, 1962, pp 1496-1498. |
|--|
| Effect of Some Alloying Elements on the Properties |
| of Boron Stainless Steel, by T. Nishima. |

HB 6029

Vol XLIX, No 3, 1963. Results Obtained With the Use of Rar-Bonded Dolomite Brich, by Y. Aoyama, et al.

HB 5925

Effect of Certain Operating Factors in the Basic Oxygen LD Process Upon the Metallic Yield, by Y. Shimogo, (pp 407, 408).

HB 5934

On the Hot Workability of Stainless Steels, by T. Fujioka, et al, (pp 625, 626).

HB 5978

The Spectrophotometric Determination of Manganese in Iron and Steel, by T. Amaki, T. Tominaga, et al., (pp 629-631).

HB 6059

Preparation of Coals for Coking, by J. Nadziakiewiez. POLISH, per, Koks-Smola-Gaz, Vol VII, No 5, 1962, pp 181-184.

BISI 3252

Examination of Paper, Paperboard and Fiberboard Containers, by Tadeusz Wojciechowski, 5 pp. POLISH, per, Opakowanie, No 2, 1963, pp 22, 23.

ACSI I-3316 ID 2246276 525th MI Gp

Nozzles and Stoppers for the Continuous Casting of Tube Steel, by I. Olbrychtowicz. POLISH, per, Prace Instytutow Hutniczych, Vol XIV, 1962, pp 285-289.

HB 6038

Efficient Machining Schedules for Rumanian Carbon Steels, by M. P. Popov, E. D. Deciu, et al. RUMANIAN, per, Academia Romine Studii Cerc Mec Aplic, Vol XIII, No 4, 1962, pp 1001-1020.

*BISI 3461

On the Modeling of Teaching Processes in Automatic Systems, by Ye. V. Voloshinova, Ye. V. Shtil'man, 18 pp.

RUSSIAN, bk, Avtomaticheskaya Regulirovaniye i Upravleniye, pp 188-199.

JPRS 21770

Bookkeeping in Planning Organizations, by Ye. M. Dityatkovskiy, 187 pp.
RUSSIAN, bk, Bukhgalterskiy Uchet v Proyektnykh Organizatsiyakh, Moscow, 1963, pp 3-6, 15-18, 35-40, 97-206, 215-224, 246-286.

JPRS 21516

Information and Information Stability of Random Quantities and Progesses, by M. S. Pinsker, 248 pp. RUSSIAN, bk, Informatsiya i Informatsionnaya Ustoychivost' Sluchaynykh Velichin i Protsessov, Moscow, 1960, pp 1-204. 9687633-V

FTD-TT-62-956

Selected Articles From the Russian Report Proceedings of the International Congress of Mathematicians in Stockholm, 1962.

Amer Math Soc

Markov Processes and Problems in Analysis, by E. B. Dynkin, (pp 36-58).

Algebraic Number Fields, by I. R. Safarevic, (pp 163-176).

Lie Algebras and Finite Groups, by A. I. Kostrikin, (pp 264-269).

Various Approaches to Estimating the Difficulty of Approximate Definition and Computation of Functions, by A. N. Kolmogorov, (pp 351-356).

Regions of the Type of the Upper Half-Plane in the Theory of Functions of Several Complex Variables, by I. I. Pjateckiy-Sapiro, (pp 389-396).

Probabilistic Ideas in Ergodic Theory, by G. Ja. Sinay, (pp 540-559).

Foreign Developments in Machine Translation and Information Processing, by N. B. Pokrovskiy 344 pp. RUSSIAN, bk, Raschet i Izmereniye Razborchivosti Rechi, Moscow, 1962, pp 1-391

JPRS 21885

On the Algorithm for Solving Boundary-Value Problems, by R. I. Stakhovskiy. RUSSIAN, per, Avtomat i Telemekh, Vol XXIV, No 7, 1963, pp 962-974.

*FTD-TT-63-1078

On the Number of Limit Cycles of the Equation $\frac{dy}{dx} = \frac{cx}{ax} \frac{dy}{dx} \frac{P(x,y)}{y}$, where P(x,y) and Q(x,y) are Homogeneous Polynomials, of Degree, by B. M. Peretjagin. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIV, 1957, pp 29-32.

Amer Math Soc

On Functions of Three Variables, by V. I. Arnol'd. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIV, 1957, pp 679-681.

Amer Math Soc

Algorithmic Problems in Partially Ordered Groups, by V. I. Frenkel, 6 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLII, No 1, 1963, pp 67-70.

JPRS 21898

Selected Articles From the Russian Newspaper Ekon Gazeta, No 33, 17 Aug 1963.

JPRS 21839

New Soviet Computers, by V. Ryazankin, 8 pp, (pp 3-6).

Calculating the Load at Each Work Site for Selection of an Optimum Sequence in Flow of Parts, by A. Grishin, 6 pp, (pp 7-9).

The Use of Computer Technology in Daily Calculation of Production Costs, by L. Yermakov, 6 pp. (pp 9-11).

A Mathematical Method Devised to Improve Efficiency of Fishing Fleets, by M. Moskalenko, 6 pp. (pp 11-13).

Some Generalizations of Imbedding Theorems, by S. L. Sobolev. RUSSIAN, per, Fund Math, Vol XLVII, 1959, pp 277-324.

Amer Math Soc

On a Class of Complete Orthonormal Systems, by N. Ja. Vilenkin.
RUSSIAN, per, Iz Ak Nauk SSSR Ser Mat II, 1947, pp 363-400.

Amer Math Soc

Approximate Solution of Differential Equations With a Deviating Argument, by N. V. Sharkova. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat, No 3, 1963, pp 173-184.

*FTD-TT-63-1034

Selected Articles From the Russian Periodical Matemat Sbornik, Novaya Seriya.

Vol XXIX (71), No 1, 1951, pp 173-176. On Normally Arranged Sets of Standard Space, by Yu. M. Smirnov. *NASA TT F-193

Vol XXXIII, 1953, pp 181-192. On an Arithmetic Method of Orthogonalization in Non-Separable Hilbert Spaces, by D. M. Koteljansky. Amer Math Soc

Vol XLVIII, 1959, Representation of Continuous Functions of Three Variables by the Superposition of Continuous Functions of Two Variables, by I. V. Arnol'd, (pp 3-74). Amer Math Soc

On Convergent Sequences of Partial Sums of Trigonometric Series, by D. E. Mensov, (pp 397-428).

Vol XLIX, 1959, pp 13-18.
The Semigroup of Homeomorphic Mappings of an Interval, by L. M. Gluskin.

Amer Math Soc

Selected Articles From the Russian Periodical Nauchno-Tekh Informatsiya.

No 4, 1963.

The Significance of Scientific-Technical Terminology in the Development of Scientific-Information Activity, by O. I. Globachev, 6 pp, (pp 8-11).

JPRS 21764

The Principle of Inversion in the Operation of Information-Search Systems, by G. E. Vleduts, D. G. Lakhuti, 17 pp, (pp 13-19).

The Use of Aperture Punched Cards for Information Search a Bibliographic Search-System Using Edge-Punched Aperture Cards, by G. G. Vorob'yev, S. A. Lipkin, 10 pp, (pp 20-25).

A Language for the Recording of Nonalgebraic Algorithms, by S. Ya. Fityalov, 11 pp, (pp 30-34).

Factors Influencing the Quality of the Microimage of Mikrat-300 Film, by Ye. I. Bukatin, 5 pp, (pp 35-38).

Selected Articles From the Russian Periodical Nauchno-Tekh Informatsiya. (Contd)

No 7, 1963. Plan for Scientific-Research Work in the Field of Scientific-Technical Information for 1964-1965, 6 pp, (pp 3, 4).

Modernization of Traditional Card Catalogs by the Use of Microphotocopying, by S. A. Lipkin, G. G. Vorob'yev, et al, 9 pp, (pp 9-11).

Algorithmic Method of Discriminating Subject Concepts for Index Compilation, Method of Nomenclator Pairs, by B. V. Yakushin, 34 pp, (pp 12-20).

On a Problem of Optimal Control, by N. N. Krasovskiy. RUSSIAN, per, Prik Matemat i Mekh, Vol XXI, 1957, pp 670-677.

Algebraic Methods in Set-Theoretic Topology, by G. S. Cogosvili.
RUSSIAN, per, Proceedings of the First All-Union Mathematical Congress, Vol III, 1956, pp 391-400.

Selected Articles From the Russian Periodical Trudy Matemat Inst imeni V. A. Steklova.

Vol XXXVIII, 1951, pp 279-316. On the Consistency of Some Propositions of the Descriptive Theory of Sets, by P. S. Novikov.

Vol XLVIII, 1955, pp 3-110. Topological Duality Theorems. I. Closed Sets, by P. S. Aleksandrov.

Vol LII, 1958, Some Generalizations of the Concept of a Normal Algorithm, by N. M. Nagornyy, (pp 7-65).

On a Minimal Alphabet of Algorithms Over a Given Alphabet, by N. M. Nagornyy, (pp 66-74).

On Constructive Functions, by A. A. Markov, (pp 315-348).

Vol LIV, 1959, pp 3-136.
Topological Duality Theorems. II. Non-Closed Sets, by P. S. Aleksandrov.

JPRS 21695

Amer Math Soc

Amer Math Soc

Amer Math Soc

Selected Articles From the Russian Periodical Trudy Matemat Inst imeni V. A. Steklova. (Contd)

Amer Math Soc

Vol LXII, 1961. Linear Methods of Approximation of Certain Classes of Periodic Continuous Functions, by A. V. Efimov, (pp 3-47).

The Approximation of Periodic Functions by Fejer Sums, by S. B. Steckin, (pp 48-60).

On Norms of Trigonometric Polynomials and Approximation of Differentiable Functions by Linear Averages of Their Fourier Series. I, by S. A. Teljakovskiy, (pp 61-97).

Solution of Post's Reduction Problem and Some Other Problems of the Theory of Algorithms, by A. A. Mucnik. RUSSIAN, per, <u>Trudy Moskov Mate Obshch</u>, No 7, 1958, pp 391-405.

Amer Math Soc

Selected Articles From the Russian Periodical Uspekh Matemat Nauk, Novaya Seriya.

Amer Math Soc

Vol XII, No 4, 1957. Letter to the Editor, by G. E. Silov, (pp 1-270).

On Continuous Decompositions of Bicompacta, by V. I. Ponomarev, (pp 335-340).

Vol XIII, No 4, 1958, pp 3-28. On the Definition of an Algorithm, by A. N. Kolmogorov.

Vol XIV, No 4, 1959, pp 3-20. Intrinsic Homology Theory, by V. A. Rohlin.

Vol XV, No 4, 1960, pp 185-192. Solution of a Problem of Halmos, by F. V. Sirokov.

The Equations and Convergence of a Differential-Difference Method, by V. I. Lebedev. RUSSIAN, per, Vest Moskov Univ, Vol X, No 10, 1955, pp 47-57.

Amer Math Soc

Calculating Machines and Automation of Production Control, by V. M. Glushkov. RUSSIAN, per, Zhur Vycheslitel Matemat i Matematich, Fiz, Vol IV, 1962.

*FTD-TT-63-1030

Probability and Mathematical Statistics, by Cheng Shao-lien, 42 pp. CHINESE, bk, Ko-hsueh Chi-shu Ch'u-pan She, Shanghai, 1961, pp 315-344. 9687638

FTD-TT-63-472

A Remark on the Existence of Finite Graphs, by Vaclav Havel, 5 pp.
CZECH, per, Casopis pro Pestovani Matematiky, Vol LXXX, No 4, 1955, pp 477-479.

Navy Tr 3620 NRL 948

On the Converses of Ljapunov's Theorem on Stability and Persidiskiy's Theorem on Uniform Stability, by Jareslav Kurzweil, Ivo Vrkoc.

CZECH, per, Czechoslovak Mathematical Journal, Vol VII, 1957, pp 254-272.

Amer Math Soc

Study of the Thermal Decomposition of Uranyl Oxalates and of Uranium (IV) Oxalates, by R. Bressat, B. Claudel, et al, 24 pp. FRENCH, per, Bulletin Societe Chimique de France, No 3, 1963, pp 464-470. 9213880

AEC-HW-Tr-56

Applications of the Quotient-Difference Algorithm, by Heinz Rutishauser.

GERMAN, per, Z fuer Angewandte Mathematik und Physik, Vol V, 1954, pp 496-508.

Navy Tr 3609 APL 891

On Undecidable Sentences in Formalized Mathematical Systems, by Andrzej Mostowski. POLISH, per, Kwartalnik Filozoficzny, No 16, 1946, pp 223-277.

Amer Math Soc

Bibliography of Polish Mathematics, 1944-1954. POLISH, per, Wiadomosci Matematyczne, pp 1-132. 9213864

OTS 61-11300 PL-480

(m+n) -Element Algebras and Their Applications to Relay-Contact Systems, by M. Greniewski, 33 pp. POLISH, per, Zastosowania Mat, Vol VI, pp 142-168, 1958.

AEC-SCL-T-507

A Fundamental Monograph on the Theory of Perceptrons, Review of Rosenblatt's Principles of Neurodynamics, by O. G. Ivakhnenko, V. V. Kleshchov, et al, 13 pp. UKRAINIAN, per, Avtomatyka, No 3, 1963, pp 84-90.

JPRS 21805

Nuclear Sciences & Technology

Microscopic Concept of Relativistic Hydrodynamics, by N. A. Chernikov. RUSSIAN, rpt.

*AEC

Thermal Diffusion in the High Temperature Phases of Zirconium and Titanium, by H. G. Feller, H. Wever.

RUSSIAN, rpt, Journal of Physical Chemical Solids, Vol XXIV, No 7, 1963, 8 pp.

AEC-Tr-5977

Polyvinyl Pyrrolidone in Affections With Certain Radioactive Isotopes, by A. A. Rubanovskaya, 6 pp. RUSSIAN, bk, Materialy po Toksikologii Radioaktivnykh Veshchestv, 1962, pp 170-173.

JPRS 21511

On the Universal Unit of Radiation Dose, by V. I. Ivanov. RUSSIAN, rpt, Ob Universalnoi Edinitse Radiatsionnoi Dozy, 1963, 9 pp.

*AEC

Selected Articles From the Russian Report Proceedings of the Conference on Radioisotopes in Soil-Plant Nutrition Studies, Held in Bombay, 26 Feb-2 Mar 1962; 1962.

The Rise of Nitrates Into the Upper Soil Layers During Summer, by R. Gadet, L. Soubies, et al, 20 pp, (pp 75-92).

AEC-Tr-5987

Distribution, Absorption and Migration of Boron in Raphanus Sativus, by L. M. Thellier, 15 pp, (pp 371-382).

AEC-Tr-5991

Absorption of Phosphoras by the Bean: Influence of Nitrogen and the Dose and Distribution of the Fertilizer, by L. Mellado, J. Puerta, et al, (pp 419-425).

AEC-Tr-5993

Use of P³² In a Study of Plant Assimilation of Phosphoric Acid According to Its Location in the Soil and Whether or Not It Is Combined With Nitrogen, by A. Essafi, J. Cline, et al, 12 pp, (pp 443-450).

AEC-Tr-5994

Scientific
Nuclear Sciences & Technology (Contd)

.

Changes in the Composition of Water-Soluable Hepatic and Blood Serum Proteins in the Early Stages of Radiation Sickness, by E. M. Belyeva, 8 pp. RUSSIAN, rpt, Proceedings of the Symposium on Biological Effects of Ionizing Radiation at the Molecular Level, Brno, 2-6 Jul 1962; 1962, pp 101-108.

AEC-Tr-5996

Modifications of Beta-Indole Acetic Acid by Ionizing Radiations, by T. Cervigni, M. L. Belli. RUSSIAN, rpt, Proceedings of the Symposium on Biological Effects of Ionizing Radiation at the Molecular Level, Brno, 2-6 Jul 1962; 1962, pp 193-202.

AEC-Tr-5998

Radioisotopic Methods for Automatic Control.
Reports of All-Union Conference on Applications of Radioisotopes in Measuring Techniques and Instruments, June 1961.
RUSSIAN, bk, Radioizotopnye Metody Avtomaticheskogo Kontrolya. Trudy Rasshirennogo Soveshchaniya Vsesoyuznogo Seminara po Primeneniyu Radioaktivnykh Izotopov v Izmeritel'noi Tekhnike i Priborostroenin, Iyun' 1961, II, 1962, 235 pp.

*AEC

Protection Against Radioactive Substances and War Gases, by F. I. Manets, 76 pp.
RUSSIAN, bk, Zashchita ot Radioaktivnykh i
Otravlyayushchikh Veshchestv, Moscow, 1962,
pp 1-88. 9689140-V

FTD-TT-63-585

Separation of Zr⁹⁵, Nb⁹⁵, and Ru¹⁰⁶ From Mixed Fission Products by Extraction With Tributyl Phosphate, by N. E. Brezhneva, V. I. Levin, et al, 13 pp. RUSSIAN, per, Atom Energiya, Vol XIV, 1963, pp 23-29.

AEC-Tr-6014

Deviation of Law 1/v of Cross-Section Reactions of Slow Neutrons in Light Nuclei, by A. A. Bergman, F. L. Shapiro.

RUSSIAN, per, Fiz Inst imeni P. N. Lebedeva, Ak Nauk SSSR, 1960, 22 pp.

*AEC

Scientific
Nuclear Sciences & Technology (Contd)

Boltzmann's Equation in the Kinetic Theory of Gases, by A. Ya. Povzner, 27 pp. RUSSIAN, per, <u>Matemat Sbornik</u>, Vol LVIII, 1962, 62 pp.

AEC-Tr-6004

Cross-Section Behaviour Near the Threshold of a New Reaction in the Case of a Coulomb Attraction Field, by M. Gailitis. RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XLIV, No 6, 1963, pp 1974-1981.

*AERE-Harwell-1945

Estimation of Some Physical and Physicochemical Properties of Chemical Compounds, by Egon Bauman. CROATIAN, per, Nafta, Vol VII, No 11, 1956, pp 335-344.

*AEC

Neutron Dosimetry and Irradiation of Solids, by G. Perriot, A. P. Schmidt. FRENCH, rpt. 1962.

*AEC

Translation Balance for Measuring Magnetic Susceptibilities at High or Low Temperature, by A. Blaise, M. A. Peuch, 16 pp. FRENCH, rpt, 1962. 9213881

AEC-HW-Tr-57

Study of the Variation in Efficiency of an Alpha Emitting Source as a Function of the Nature of the Support and of the Applied Threshold, by Movchet, Boulloud, et al, 13 pp. FRENCH, rpt, 1962. 9213605

AEC-HW-Tr-58

Propagation of Meutrons in an Annular Space, by J. Brisbois, 13 pp. FRENCH, rpt, 1962.

AEC-Tr-6009

Shielding Measurements on the Ulysse Reactor During Start-Up, by A. Tattegrain, H. Satge, 19 pp. FRENCH, rpt.

AEC-Tr-6010

Diffusion of Active Ion in Water. Liberation of Iodine in CO₂ Bubble at High Temperatures, by A. Barthoux, J. Couland, et al.

FRENCH, rpt, Diffusion de l'Iode Actif a Travers l'Eau. L'Iode Etant Libere dans des Bulles de CO₂ a Haute Temperature, Jun 1962, 18 pp.

*AEC

A Study of the Series, $s_X = \sum^{\infty} n^X p^{n-1}$ α Positive Integer, Encountered in the Study of the Growth of Polymers, by Jacques Ravatin, Guy Mesnard. FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCLV, 1962, pp 2098, 2099.

*AEC

Scientific

Nuclear Sciences and Technology (Contd)

The Anodic Behavior of Metals in Aqueous Media, Part II, by F. Clerbois, 9 pp. FRENCH, per, Corrosion Science, Vol II, 1962, pp 119-131. 9214709

AEC-Tr-6082

Contribution to the Study of the Indirect Double Pick-Up Measure for the Production of Tritium by Protons of 82 and 105 MeV in Different Targets, by Brun, Colette, et al. FRENCH, per, Journal Physique et Radium, Vol XXIII, 1962, pp 167-172.

*AEC

Technical Uses of Radioactivity, by Broda, Engelbert. GERMAN, bk, <u>Die Technischen Anwendungen der Radioaktiviatat</u>, Vol I, No 3, 1962.

*FTD-TT-63-1099

Isotope Separation and Enrichment, by K. Bier, W. Fischer; et al, 8 pp.
GERMAN, per, Chemie Ingenieur Technik, Vol XXXIV, 1962. p 580.

AEC-Tr-5986

Preparation of Microautoradiographs From Metallic Specimens, by S. Wadewitz, A. Muller. GERMAN, per, <u>Isotopentechnik</u>, Vol II, No 3, 1962, pp 81-83.

*AERE-Harwell-1953

Tables of the y-and B-Spectra of Fission Products, by L. Albrecht.
GERMAN, per, Kernenergie, Vol VI, No 8, 1963, pp 390-409.

*AERE-Harwell-1948

Continuous Measurement of the Moisture Content of Ore Fines for Sinter Plants by Neutron Scattering, by W. Kuhn.
GERMAN, per, Kerntechnik, Vol V, No 5, 1963, pp 207-212.

BISI 3376

Nuclear Technology in Western Europe. Part 2, The Western European Reactor Industry, Exclusive of Germany, by K. Diebner, 15 pp. GERMAN, per, Kerntechnik, Isotopentechnik und Chemie, Vol V, No 3, 1963.

Maritime Admin

The Stability of Uranium Dicarbide and the Carbon-Stable Regions in the Partial Systems of UC With ZrC, NfC, NbC and TaC, by E. Rudy, F. Benesovsky. GERMAN, per, Monatshefte fuer Chemie, Vol XCIV, No 1, 1963, pp 204-224.

*AERE-Harwell-1947

Scientific

Nuclear Sciences & Technology (Contd)

Cleaning of Radioactively Contaminated Workclothes, by Thomas Schnikora, 6 pp.
GERMAN, per, Die Wascherei, No 1, 1963, pp 10-12.

ACSI I-2238 ID 2227676

The Use of Autoradiography for Investigating Phenomena on Metal Surfaces, by L. Junghahn. GERMAN, per, Werkstoffe und Korrosion, Vol XIII, No 4, 1962, pp 204-209.

*AERE-Harwell-1951

Possibilities of Errors in the Mass-Spectrographic Solid-Body Analysis by Means of High-Frequency Sparks for the Production of Ions, by J. Franzen, H. Hintenberger.

GERMAN, per, Z fuer Analytische Chemie, Vol CXCVII, No 1, 1963, pp 91-97.

*AEC

Mass-Spectroscopic Solid-Body Investigations by Means of a Direct-Current Disruption Spark for the Production of Ions, by K. D. Schuy, H. Hintenberger.

GERMAN, per, Z fuer Analytische Chemie, Vol CXCVII, No 1, 1963, pp 98-106.

*AEC

Significance of X-Ray Diffraction Analysis in Investigating the Ordering and Separation Process, by Volkmar Gerold, 24 pp. GERMAN, per, Z fuer Metallkunde, Vol LIV, 1963, pp 370-380.

AEC-Tr-5980

The Transformation Principle of Separating Tube Cascades, by G. Dickel, D. Schildknecht, 20 pp. GERMAN, per, 2 fuer Naturforschung, Vol XVIIIa, 1963, pp 105-111.

AEC-Tr-5972

Enrichment of Lithium Isotopes by Counter-Current Electrolysis in Aqueous Solution, by W. Thiemann, K. Wagener, 21 pp.
GERMAN, per, Z fuer Naturforschung Vol XVIIIa, 1963, pp 228-235.

AEC-Tr-5973

Separation of Uranium Isotopes With a Separating Nozzle With the Use of Light Addition Gases, by E. W. Becker, K. Bier, et al, 13 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIIa, 1963, pp 246-250.

AEC-Tr-5974

Thermodynamic Properties of Zirconium and Hafnium Halides, by S. N. Lungu, 8 pp.
ITALIAN, per, Acad Rep Populare Romine, Studii
Cercetari Fiz, No 13, 1962, pp 29-35. 9213612

AEC-Tr-5906

Scientific Nuclear Sciences & Technology (Contd)

Viscoelastic Properties of High Polymers, V. Effects of Vulcanization and Filler Loading on Dynamic Properties of Synthetic Rubber Near the Transition Temperature, by S. Nohara. JAPANESE, per, Chemistry of High Polymers, Vol XII, 1955, pp 47-54.

*AEC

Analysis of Temperature Dispersion Curves of Dynamic Modulus in Crosslinked Polymers, by Shibayama Kyoichi.

JAPANESE, per, Chemistry of High Polymers, Vol XIX, 1962, pp 543-546.

*AEC

A Simplified Method of Obtaining Highest-System Reliability, by Sasaki Masafumi.

JAPANESE, per, Journal of the Institute of Electrical Communications Engineers, Vol XLV, No 2, 1962, pp 144-150.

*AEC

The Diffusion Phenomena of the Positive Column in a Magnetic Field, by M. Sato, Y. Hatta, 16 pp. JAPANESE, per, Kakuyugo-Kenkyu, Vol X, 1963, pp 373-386.

AEC-Tr-5985

Determination of the Age of Fission Products According to the Change in Total Area of the Photopeak of Zr^{95} + Nb95 With Time, by Z. G. Gritchenko, 9 pp. UNKNOWN, rpt, 1962.

AEC-Tr-6022

Second Power-Rise Test for JRR-2, by Katsuhiko Sonda, 15 pp.
UNKNOWN, rpt, Mar 1963. 9214710

AEC-Tr-5979

Scientific Physics

An Empirical Formula for the Mean Number of Fission Neutrons, by L. D. Gordeyeva, G. N. Smirenkin, 21 pp. RUSSIAN, rpt, Sep 1962.

AERE-Harwell-Tr-956

Leak Test of JRR-2 Housing Building, 24 pp. RUSSIAN, rpt, Apr 1962.

AEC-NP-Tr-1047

Transducers for Mechanical Parameters of Machines, by N. P. Rayevskiy, 300 pp.
RUSSIAN, bk, Datchiki Mekhanicheskikh Parametrov
Mashin, Moscow, 1959, pp 1-187. 9689304-V

FTD-TT-62-1334

Selected Articles From the Russian Book Nekotoryye Voprosy Mekhaniki, Moscow, 1962. 9688773

FTD-TT-63-571

Calculating Local Deflections of LRE Combustion Chamber Shells, by N. A. Alfutov, 14 pp, (pp 5-13).

Concerning Local Stability of the Inner Wall of an LRE Chamber, by V. S. Zarubin, 17 pp, (pp 14-25).

Determination of Local Deflections in Shells of an LRE Chamber With Very Closely Spaced Joints, by Yu. M. Nikitin, V. B. Metlin, 8 pp, (pp 26-32).

Thermodynamic Analysis and Heat Calculation of a High-Velocity Cylindrical LRE Combustion Chamber, by G. B. Sinyarev, 28 pp, (pp 107-126).

Determination of the Optimum Radius of the Area Taken Into Account in the Correction for the Relief of Terrain During Gravimetric Survey, by N. I. Dergachev. RUSSIAN, bk, Opredeleniye Optimal'nogo Radiusa Chlast I, Uchityvayemoy v Popravke za Rel'yef Mestnosti pri Gravimetrovoy S'yemke, 1963, pp 135-137.

ACIC

Photographic Optics, by L. S. Urmakher. RUSSIAN, bk, Optika Fotograficheskikh i Aerofotogrammetricheskikh Priborov, hapter VII, 1962, pp 163-200.

ACSI I-2986-A ID 2240824

Optics of Photogrammetric Instruments, by L. S. Urmakher. RUSSIAN, bk, Optika Fotograficheskikh i Aerofotogrammetricheskikh Priborov, Chapter VIII, 1962, pp 201-213.

ACSI I-2986-B ID 2240824

Inorganic Nutrients as a Factor in Increasing the Intensity and Productivity of Photosynthesis of Algae, by S. S. Baslavskaya, 15 pp. RUSSIAN, bk, Pervichnaya Produktsiya Morey i Vnutrennikh Vod, 1961, pp 319-327.

Theory of Gyroscopic Instruments, by B. I. Kudrav

Navy Tr 3603 HO 203

Theory of Gyroscopic Instruments, by B. I. Kudravich. RUSSIAN, mono, Teoriya Girosfopicheskikh Priborov, Vol I, 1963.

*FTD-TT-63-1100

Heavy Hydrogen Isotopes -- Deuterium and Tritium, by I. F. Tupitsyn, 45 pp.
RUSSIAN, bk, Tyazhelyye Izotopy Vodoroda
Deyteriy i Tritiy, Moscow, 1961, pp 1-38.

JPRS 21487

The Kinetics of Biosynthesis, by M. V. Vol'kenshteyn, N. M. Godzhayev, et al, 6 pp. RUSSIAN, per, Biofizika, Vol VIII, No 1, 1963, pp 3-8.

ACSI I-3242 ID 2244419

The Question of the Theoretical Calculation of Surface Tension and Certain Other Characteristic Solids and Liquids, by M. Yu. Bal'shin, 59 pp. RUSSIAN, per, Byul Inst Metallokeramiki i Spetssplavov Ak Nauk SSSR, No 4, 1959, pp 5-37.

FTD-TT-62-1831

Quantitative Characteristics of Vascular Reaction in Plethysmographic Investigations, by Yu. I. Krasil'nikov, 6 pp. RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenova, Vol XLIX, No 7, 1963, pp 870-872, 9687662

FTD-TT-63-849

Method of Physiological Research, by N. N. Vasilevskiy, O. Ye. Guzeyev, 7 pp.
RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenova, Vol XLIX, No 7, 1963, pp 886-888, 9687662

FTD-TT-63-849

Heat Transfer and Resistance of Slotted Channels With Ovel Conical Stamplings, by I. G. Pedorov, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Aviats Tekh, No 4, 1962, pp 145-150. 9687660

FTD-TT-63-617

Study of Spectral Reflection Factors and the Sensitivity of Silicon Photoelements, by M. A. Kropotkin, B. P. Kozyrev. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 4, 1962, pp 118-122.

Navy Tr 3613 HO 404

| Polarization of Radio Emission From Discrete Sources and the Study of Metagalactic, Galactic and Near-Solar Space, by V. L. Ginzburg, V. V. Pisareva. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Radiofiz, 23 pp. | Navy Tr 3619 NRL 946 |
|--|--|
| General Solution of the Equations of Equilibrium for Anisotropic and Isotropic Bodies, by E. N. Bayda, 19 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Stroitel i Arkhitektura, No 6, 1958, pp 17-27. 9689084 | DDC RSIC-48 |
| Certain Problems Related to Power Installations of Ships Supported on Submerged Hydrofoils, by V. M. Kolyuko, 13 pp. RUSSIAN, per, Sudostroyeniye, No 3, 1963, pp 22-25. | Navy Tr 3618 ONI 960 |
| Results of Some Thermo-Technical Investigations, by V. D. Yusufova. RUSSIAN, per, Trudy Inst Energet imeni I. G. Ey'mana, Vol XV, 1962, pp 180-194. | *FTD-TT-63-922 |
| On the Stability of Motion of a Heavy Point of Variable Mass, by A. S. Galyullin, 23 pp. RUSSIAN, per, Trudy Kazan Aviats Inst, No 45, 1959, pp 45-62. 9687643 | FTD-TT-62-1188 |
| Nuclear Methods of Research in Solid State Physics, by S. V. Vonsovskiy, 9 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 8, 1963, pp 55-61. | JPRS 21716 |
| Some Problems of Generation of Optical Radiation, by O. N. Krokhin, 11 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 8, 1963, pp 62-69. | JPRS 21716 |
| Absorption of Solar Radiation by Aquatic Vapors According to Observation at Various Altitudes, by N. I. Kozhevnikov, Ye. A. Makarova, 6 pp. RUSSIAN, per, Vest Mosk Univ, Ser Fiz, Astron, No 6, 1962, pp 73-79. | ACSI I-2889 ID 2237318 519th MI Bn |
| Concerning Unsteady One-Dimensional Gas Motion With Heat Input in a Channel of Variable Cross Section, by N. N. Popov, 15 pp. RUSSIAN, per, Vest Moskov U, Ser I, Matemat, Mekh, No 2, 1961, pp 71-79. 9687664 | FTD-TT-61-36 |

Calculation of the Roentgen Debayev Temperature of Crystals With Face-Centered Cubic Lattice, by M. A. Krivoglaz.
RUSSIAN. per. Venrosy Fiz Metal i Metallov No. 13

RUSSIAN, per, Voprosy Fiz Metal i Metallov, No 13, 1961, pp 35-43.

*ACSI I-3617 ID 22S0322

Limiting Law for Reliability of Sequential Systems, by B. G. Klimov, 17 pp.
RUSSIAN, per, Vychisliter naya Tekh, No 4, 1962, pp 98-110. 9687649

FTD-TT-63-470

Investigation of the Spectrozonal Film SN-2 Under Conditions of Photography of Natural Objects, by A. Ya. Smirnov, 17 pp.
RUSSIAN, per, Zhur Nauch i Prik Fotograf i Kinematog, Vol VI, No 3, May, Jun 1961, pp 193-202. 9687639

FTD-TT-63-797

Selected Articles From the Russian Periodical Zhur Prik Mekh i Tekh Fiz.

No 4, Jul, Aug 1962. 9688775 Diffusive-Thermal Stability of Laminar Flame, by G. I. Barenblatt, Ya. B. Zel'dovich, 17 pp, (pp 21-26). FTD-TT-63-87

Experimental Investigation of Spinning Detonation, by Means of Piezoelectric Gauges, by M. Ye. Topchiyan, 15 pp, (pp 94-99).

Turbulent Boundary Layer on a Plane Plate, by G. L. Grodzovskiy, 6 pp, (pp 117-119).

No 1, 1963, pp 67-76. 9687640 Concerning the Stability of the Burning Regime of a Powder in a Semiclosed Space, by Ya. B. Zel'dovich, 23 pp.

FTD-TT-63-572

Improvements Made on Apparatus for Separation of Gases by Diffusion, by Y. Duriau, M. Gadal, et al. BELGIAN, Patent No 567,135, 1960, 14 pp.

*AEC

Calorimetric Methods in Ionization Radiation Dosimetry, Part I, by Z. Kovar, F. Behounek, 8 pp. CZECI, per, <u>Jaderna Energie</u>, Vol VIII, No 2, 1962, pp 51-56.

ACSI I-3244 ID 2244421 519th MI Bn

A New Method for Calibrating Vibration Pickups, by Thian Liang Oei, 19 pp.
DUTCH, rpt, Technisch Physische Dienst T.N.O.
en T.H., No 62.061, Oct 1962.

Navy Tr 3607 BuShips 831

A New Crystal Cut for Quartz With a Zero Temperature, by E. J. Post.
DUTCH. ner. Tijdschrift Van Het Nederlandsch

DUTCH, per, Tijdschrift Van Het Nederlandsch Radiogenootschap, Vol XIV, No 5, 1949, pp 147-157.

The Influence of Moisture on Wood and Paintwork, by I. Loon.

DUTCH, per, Verfkroniek, Vol XXXII, No 1, 1959, pp 35-45.

New Ideas on the Concept of the Vivacity of a Color, by François Driancourt.

FRENCII, bk, Nouveaux Apercus Sur le Concept de Vivacite d'une Couleur.

On the Physical Chemistry of the Conversion of Pig Iron and on Fluid Dynamics in Top Blowing, by P. Coheur, A. Decker.

FRENCH, rpt, Paper Presented at the International Congress on Oxygen Steel Plants, Le Touquet, Dunkirk, Sep 1963.

Planetary Physics -- Measurements of the Quantity of Water Vapor Contained in the Atmosphere of the Planet Mars, by Audouin Dollfus.

FRENCI, bk. Physique Planetaire -- Mesure de La

FRENCI, bk, Physique Planetaire -- Mesure de la Planete Mars.

The Calculation of the Transfer of Radiation in X-Ray Fluorescence. The Matrix Effect. The Formal Solution of the Equation of Transfer and the Calculation of the Coefficients of Mass Emission, by Michel Renaud.

FRENCH, per, Comptes Rendus des Seances de 1'Academie des Sciences, Vol CCLVI, No 18, 1963, pp 3837-3840.

Furnaces and Temperature Regulators for Physical-Chemical Studies up to 1700°LC., by Gilbert Cavalier. FRENCI, per, Silicates Industriels, Vol XXII, 1957, pp 527-532.

Radioactive Isotopes and the Construction Industry, 318 pp. GERMAN, bk, Radioaktive Isotope und das Bauwesen,

Leinzig, 1961, pp 1-152. 9214696

Flight Planning in the Case of Convergent Photography, by W. Wunderlich.

GERMAN, rpt, Zue Flugplanung bei Konvergent-Aufnahmen.

*FTD-TT-63-1092

GB/39/Pa

ACIC

*BISI 3442

ACIC

*Navy/NRL

*AEC

ACIC

AEC-Tr-5632

The Wave Equation of the Electron in the General Relativity Theory, by L. Infled, B. L. van der Waerden, 22 pp.

GERMAN, per, Akademie der Wissenschaften, No 9, 1933, pp 380-401. 9213649

AEC-UCRL-Tr-981

*ACSI I-3616

ID 2250321

Tunnel Diode Rectilinear Amplifier Low Level Noise Input Stage in the UHF Region, by H. Rieck, R. Maurer.

GERMAN, per, Archiv der Elektrischen Uebertragung, No 11, 1961, pp 495-507.

Tests to Determine the Moisture Content of Woods During Kiln Drying, by K. Egner, H. Kolb. GERMAN, per, Deutsche Gesellschaft fuer Holz, Vol XLVII, 1960, pp 61-71.

CSIRO/No 5526

Causes of Failure of Steam Superheater Pipes Made From 18 Cr/12 Ni/iTi Steel, by A. V. Stanyukovich, E. E. Levin, 9 pp.

GERMAN, per, Energomashinostroenie, No 10, 1961, pp 27-30.

AEC-TRG-Inf-Ser-191

Microtechnological Research Into the Changes in Structure and Moisture Content of Impregnated Railway Sleepers. Tar Oil Impregnation of Beech and Oak Sleepers at Temperatures of 100° and 130°C, by H. H. Bosshard. GERMAN, per, Holz als Roh- und Werkstoff, No 9, 1961.

NZDIA

Fluorine-Containing Elastomers, by S. N. Borisov, 11 pp. GERMAN, per, Kauchuk i Rezina, Vol XX, No 8, 1961, pp 16-20.

RAE Tr 1010

Physics of High Polymers and Fundamental Physics, by F. H. Muller. GERMAN, per, Kolloid Zeitschrift, Vol CXXIII, 1951, pp 66-83.

*AEC

Heat Conduction in Electrically Insulating Crystals, by Gunther Leibfried, Ernst Schlomann, 35 pp. GERMAN, per, Mathematisch-Physikalische Klasse, Vol IIa, 1954, pp 71-93. 9213627

AEC-Tr-5892

Studies on the Theory of Spatial Vision, II and IV, by N. Guenther, Carl Zeiss, 19 pp.
GERMAN, per, Optik, Vol XVII, No 3, 1960, pp 168-176.
9689181

DDC RSIC-75

Studies on the Theory of Spatial Vision, II and IV, by N. Guenther, Carl Zeiss, 19 pp.
GERMAN, per, Optik, Vol XVII, No 5, 1960, pp 278-282. 9689181

DDC RSIC-75

Anti-Matter, by R. Hagedorn, 20 pp. GERMAN, per, Physikalische Blatter, Vol XVIII, No 6, 1962, pp 255-263.

AEC-NP-Tr-1056

Generalized Dalitz Diagrams in Low Energy Nuclear Physics, by D. Dehnhard, D. Kamke, et al, 7 pp. GERMAN, per, Physics Letters, Vol III, No 1, 1962, pp 52-55. 9214712

AEC-NP-Tr-1050

Effect of the Stacking Fault Tetrahedra on the Volume and Electric Resistance of Noble Metals, by G. Schottky, 18 pp.
GERMAN, per, Physica Status Solidi, Vol III, 1963, pp 744-759.

AEC-Tr-6016

On the Rate of Evaporation of Small Droplets in a Gaseous Atmosphere, by N. Fuchs, 25 pp. GERMAN, per, Physik Zeit Sowjetunion, Vol VI, 1934, pp 224-243.

AEC-Tr-5956

Experiences With a New Rapid Method of Micro C-H Determination, by W. Pfab, 13 pp. GERMAN, per, 2 fuer Analytische Chemie, Vol CLXXXVII, No 5, 1962, pp 354-361. 9689182

DDC RSIC-83

A Field Ion Source With Thin Wires or Sharp Metal Edges for Field Production, by H. D. Beckey, 14 pp.
GERMAN, per, Z fuer Instrumentenkunde, Vol LXXI, 1963, pp 51-54.

AEC-NP-Tr-1061

Field-Ionization Mass Spectra of Organic Molecules, by H. D. Beckey, 8 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIa, No 12, 1962, pp 1103-1111.

AEC-NP-Tr-1055

Calculation of the Numbers of Dispersion Centres in Sodium, by V. K. Prokof'ev, W. K. Prokofjew, 20 pp.
GERMAN, per, Z fuer Physik, Vol LVIII, 1929, pp 255-267. 9214699

AEC-NP-Tr-1051

On the Theory of Hysterisis Losses in a Rotating Magnetic Field, by M. Kornetzki, I. Lucas, 12 pp. GERMAN, per, Z fuer Physik, Vol CXLII, 1955, pp 70-82.

RAE Tr 1008

Reaction Mechanism in the Formation of Spinel in the Solid State, by Hermann Schmalzried, 23 pp. GERMAN, per, Z fuer Physikalische Chemie, Vol XXXIII, 1962, pp 111-128.

AEC-UCRL-Tr-961(L)

Personnel Film Dosimetry, by M. Bekes, Zs. Makra. HUNGARIAN, per, Magyar Tudomanyos Akademia Kozp, Fiz Kut Int Kozlemenyei, Vol IX, No 4, 1961, pp 251-262.

*AERE-Harwell

New Measuring Devices for Health Physics, by A. Anzani, A. Malvicini, 13 pp.
ITALIAN, rpt, Commissione della Comunita
Europea dell' Energia Atomica, No 14,
Jun 1962. 9689184

DDC RSIC-87

On the Damping of Vertically Flowing Columns, by Giovanni Travaglini. ITALIAN, per, Giornale del Genio Civile, No 9, 1958, pp 3-14.

Dept of Interior TC823 A358 No 386

Lattice Vibration Distribution and Specific Heat of Bi-Metallic Regular Lattice, by Y. Shibuya, Y. Fukuda, 5 pp.
JAPANESE, per, Busseiron Kenkyu, Vol XLI, 1951, pp 17-20. 9689090

DDC RSIC-81

On Lattice Vibration of a Body-Centered Cubic Lattice With Two Kinds of Atoms, by Y. Shibuya, Y. Fukuda, 9 pp.

JAPANESE, per, Busseiron Kenkyu, Vol XXXVII, 1951, pp 160-167. 9689088

DDC RSIC-79

Photographic Factor in Electronmicrograph, by Shimizu Yasuo.

JAPANESE, per, Journal of Electronmicroscopy, Vol XI, No 4, 1962, pp 199-206.

*AEC

Ion Cyclotron Apparatus, by L. Allen, 71 pp. JAPANESE, per, <u>Kakuyugo-Kenkyu</u>, Vol IX, 1962, pp 351-375.

AEC-NP-Tr-1057

The Mechanism of Freezing in Micro-Organisms. I. Factors Affecting the Survival of Yeast Cells Subjected to Subzero Temperatures, by Tadashi Araki, Tokio Nei, 21 pp.

JAPANESE, per, Low Temperature Science, Ser B, Vol XX, 1962, pp 57-67. 9213617

AEC-Tr-5885

Constitution of the contract o

Supersonic Flow Past Blunt Bodies, by O. M. Belotsekovskiy, I. P. Chushkin, 31 pp. POLISH, per, Archiwum Mechaniki Stosowanej, Vol XIV, No 3, 4, 1962, pp 461-487. 9688856

FTD-TT-63-211

The Velocity of Sound and Hugoniot's Adiabate for Partially Ionized Heavy Inert Gases, by A. Szaniawski, 33 pp. POLISH, per, Archiwum Mechaniki Stosowanej, Vol XIV, No 3, 4, 1962, pp 565-581. 9688856

FTD-TT-63-211

Employment of Trivalent Logic in the Theory of Automatic Mechanisms. II. Characteristic Equation of a Polarized Relay, by Gr. C. Moisil, 5 pp. RUMANIAN, per, Comunicarile Academiei Republicii Populare Romine, Vol VI, No 2, 1956, pp 231-234. 9213642

AEC-SCL-Tr-488

Report on the Institute of Atomic Physics of the Rumanian Academy, by Mihai Mazanet, 9 pp. RUMANIAN, np, Contemporanul, 23 Aug 1963, p 7.

JPRS 21838

The Fourth All-Union Conference on the Theory of Elementary Particles, by Yu. M. Lomsadze, I. Yu. Kryvskyy, et al, 11 pp.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII, No 5, May 1963, pp 601-605.

JPRS 21518

Miscellaneous

Exact Methods in Linguistic Research, by O. S. Akhmanova, I. A. Mel'chuk, et al, 179 pp. RUSSIAN, rpt.

Rand Corp R-397-PR

11 October 1963 Announcements of Nominations, 10 pp. RUSSIAN, np, Nedit Gazeta, 11 Oct 1963, p 4.

JPRS 21766

15 October 1963 Announcements of Mominations, 10 pp. RUSSIAN, np, Medit Gazeta, 15 Oct 1963, p 4.

JPRS 21766

The Most Important Trends in Scientific Research Work in the VNIIP Pa in 1963, by V. S. Lapatukhin. RUSSIAN, per, Poligraf Proiz, No 1, 1963, pp 10-13.

NLL Tr Bulletin Vol V, No 10, 1963

A New Step in Scientific Work, by M. V. Keldysh, 12 pp. RUSSIAN, np, Pravda, 17 May 1963.

NLL r Bulletin Vol , No 10, 1963 Scientific
Miscellaneous (Contd)

Annual Conference of Maritime Scientific Research Institutes, by V. M. Naumov, 5 pp. RUSSIAN, per, Rybnoye Khoz, Vol XXXIX, No 8, 1963, pp 86, 87.

JPRS 21837

Selected Articles From the Russian Periodical Vest Ak Nauk SSSR.

No 5, 1963, pp 83-86. In Chana's Scientific Institutions, by V. A. Troitskaya, 6 pp.

JPRS 21574

No 8, 1963. Science and Ideological Life, by P. N. Fedoseyev, 29 pp, (pp 8-28). JPRS 21716

Discussion of the Report, Science and Ideological Life, 15 pp, (pp 29-39).

Urgent Tasks for Ukrainian Scientists, by B. Ye. Paton, 8 pp. (pp 43-48).

Toward New Successes in the Development of Science, by V. F. Kuprevich, 5 pp, (pp 49-51).

Cuban Scientists in the Soviet Union, by G. I. Rakhmaninov, 6 pp, (pp 84-88).

Session of the All-Union Lenin Academy of Agricultural Sciences.
RUSSIAN, per, Vest Sel'skokh Nauk, No 5, 1963, pp 3-25. 9214096

USDA Tr A-1406

Selected Articles From the Russian Periodical Voprosy Filosofii, Vol XVII.

No 7, 1963, pp 97-109. Failure of the Neopositivist Concept of Scientific and Theoretical Knowledge, by V. S. Shvyrev, 17 pp. JPRS 21747

No 8, 1963. Programming Concrete Social Research, by A. G. Zdravomyslov, V. A. Yadov, 25 pp, (pp 74-83).

JPRS 21807

Gnosiological Description of Cybernetic Models, by I. V. Novik, 31 pp, (pp 92-103).

JPRS 21807

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Selected Articles From the Russian Periodical Voprosy Filosofii, Vol XVII. (Contd)

| No 8, 1963. The Structure and Function of Living Matter on the Molecular Level, by R. S. Karpinskaya, 15 pp, | |
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| Correlation Between Forms of Motion and Forms of Matter in Nature, by Ye. F. Solopov, 16 pp, (pp 143-154). | JPRS 21806 |
| Cybernetics in Czechoslovakia, by J. Nedoma, | |
| A. Perez, et al, 15 pp. CZECI, per, <u>Nova Mysl</u> , No 7, 1963, pp 805-826. | JPRS 21700 |
| Theory of Information and Publicity, by J. Klanfer. FRENCH, per, Revue Française de Recherche Operationnelle, Vol VI, No 22, 1962, pp 35-54. | *Navy/APL J304 |
| Biological and Technical Aspects of Cybernetics, | |
| by Edm. Nicolau, C. Balaceanu, 18 pp. RUMANIAN, per, Automatica si Electronica, Vol III, No 3, May, Jun 1963, pp 100-106. | JPRS 21605 |
| Basic and Applied Research in Rumania, by Stefan Milcu, 11 pp. | |
| RUMANIAN, per, Lupta de Clasa, No 9, 1963, pp 39-50. | JPRS 21736 |
| Can a Cognitive Self-Learning System Determine the Moment at Which a Tadpole Changes Into a Frog?, by O. G. Ivakhnenko, 13 pp. | |
| UKRAINIAN, per, Avtomatyka, No 2, 1963, pp 31-40. | JPRS 21640 |

INFORMATION RECEIVED DURING NOVEMBER

ON COVER-TO-COVER TRANSLATIONS

| Akusticheskii Zhurnal, Vol IX, No 1, 1963. | Amer Inst of Phys Sov Phys - Acoustics Vol IX, No 1 |
|--|--|
| Akusticheskii Zhurnal, Vol IX, No 2, 1963. | Amer Inst of Phys Sov Phys - Acoustics Vol IX, No 2 |
| Avtomatika i Telemekhanika, Vol XXIV, No 4, 1963. | ISA |
| Doklady Akademii Nauk SSSR, Biological Section, Vol CXLII, No 1-6, 1962. | AIBS |
| Doklady Akademii Nauk SSSR, Biological Section, Vol CXLIII-CXLIV, No 1-6, 1962; Vol CXLV-CXLVII, No 1-6, 1963. | СВ |
| Elektrosvyaz', No 1-3, 1963. | AIEEE |
| Fizika Tverdogo Tela, Vol V, No 5, 1963. | Amer Inst of Phys Sov Phys - Solid State Vol V, No 5 |
| Geomagnetism and Aeronomy, Vol II, No 1-5, 1962. | AGU |
| Inzhenerno-Fizicheskii Zhurnal, Vol VI, No 10, 1963. (NY-1880) | *JPRS |
| Izmeritel'naya Tekhnika, No 4, 1963. | ISA |
| Izvestiya Akademii Nauk SSSR, Otdelenie Khimicheskikh Nauk, No 12, 1962. | СВ |
| Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXVI, No 11, 1962. | CTT |
| Izvestiya Vysshikh Uchebnykh Zavedeniy Radiofizika, Vol VI, No 2, 1963. | JPRS 21869 |
| Izvestiya Vysshikh Uchebnykh Zavedeniy Radiofizika, Vol VI, No 4, 1963. (NY-7866/4) | *JPRS |
| Izvestiya Vysshikh Uchebnykh Zavedeniy MViSSO SSSR po Razdelu, Radiotekhnika, Vol VI, No 2, 1963. | JPRS 21504 |
| Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiotekhnika, Yel VI, No 3, 1963. (NY-7789) | *JPRS |

*JPRS

Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiotekhnika, Vol VI, No 4, 1963. (NY-7903/4)

| Tzvestiya Vysshikh Uchebnykh Zavedeniy, Radiotekhnika, Vol VI, No 5, 1963. (NY-7903/5) | *JPRS |
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| Kosmicheskiye Issledovaniya, Vol 1, 1963. | FTD-TT-63-968 |
| Mikrobiologiya, Vol XXXI, No 1, 2, 1962. | AIBS |
| Mikrobiologiya, Vol XXXI, No 3-6, 1962. | СВ |
| Optika i Spektroskopiya; Vol XV, No 1, 1963. | OSA |
| Pribory i Tekhnika Eksperimenta, No 1, 1963. | ISA |
| Radiobiologiya, Vol II, No 6, 1962. | ΛEC-Tr-5433 |
| Tsvetnye Metally, Vol III, No 6, 1962. | PS |
| Uspekhi Fizicheskikh Nauk, Vol LXXIX, No 3, 4, 1963. | Amer Inst of Phys Sov Phys - Uspekhi Vol VI, No 2 |
| Vestnik Akademii Meditsinskikh Nauk SSSR, Vol XVIII, No 8, 1963. | JPRS 21526 |
| Vestnik Akademii Meditsinskikh Nauk SSSR, Vol XVIII, No 10, 1963. (NY-7890) | *JPRS |
| Vestnik Svyazi, No 8, 1963. | JPRS 21842 |
| Voyennyy Vestnik, No 7, 1963. | ACSI I-1614-G ID 2201421 |
| Zavodskaya Laboratoriya, Vol XXIX, No 1-4, 1963. | ISA |
| Zhurnal Prikladnoi Khimii, Vol XXXV, No 12, 1962. | СВ |
| Zhurnal Prikladnoi Khimii, Vol XXXVI, No 1, 1963. | СВ |
| Zhurnal Strukturnoi Khimii, Vol III, No 5, 6, 1962. | СВ |

^{*} In Process

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7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Moncy Latone See for Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

Enclosures:

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

Processing of OGA-Held CIA Documents



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| OGA Doc ID Job Num Box Fidr Doc | Job Num | Box | FIG | . , | Doc ID | Document Title | Pub Date P | Pages | Decision | Proc Date |
| AD0834364 | 78-03109A | 52 | _ | 9 | 62 | Consolidated Translation Survey For February 1963 | 2/1/1963 | 232 | Approved For Release | 3/25/2004 |
| AD0402915 | 78-03109A | 52 | - | 7 | 63 | Consolidated Translation Survey For March 1963 | 3/1/1963 | 314 | Approved For Release | 3/25/2004 |
| AD0405169 | 78-03109A | 52 | - | 80 | 64 | Consolidated Translation Survey For April 1963 | 4/1/1963 | 278 | Approved For Release | 3/25/2004 |
| AD0409473 | 78-03109A | 52 | - | 6 | 65 | Consolidated Translation Survey For May 1963 | 5/1/1963 | 358 | Approved For Release | 3/25/2004 |
| AD0413153 | 78-03109A | 53 | - | - | 99 | Consolidated Translation Survey For June 1963 | 6/1/1963 | 361 | Approved For Release | 3/25/2004 |
| AD0414818 | 78-03109A | 53 | - | 5 | 29 | Consolidated Translation Survey For July 1963 | 7/1/1963 | 249 | Approved For Release | 3/25/2004 |
| AD0418328 | 78-03109A | 53 | - | ဗ | 89 | Consolidated Translation Survey For August 1963 | 8/1/1963 | 324 | Approved For Release | 3/25/2004 |
| AD0834365 | 78-03109A | 53 | - | 4 | 69 | Consolidated Translation Survey For September 1963 | 9/1/1963 | 193 | Approved For Release | 3/25/2004 |
| AD0423936 | 78-03109A | 53 | - | S | 70 | Consolidated Translation Survey For October 1963 | 10/1/1963 | 232 | Approved For Release | 3/25/2004 |
| AD0426736 | 78-03109A | 53 | - | 9 | 71 | Consolidated Translation Survey For November 1963 | 11/1/1963 | 298 | Approved For Release | 3/25/2004 |
| AD0428566 | 78-03109A | 53 | - | 7 | 72 | Consolidated Translation Survey For December 1963 | 12/1/1963 | 298 | Approved For Release | 3/25/2004 |
| AD0431011 | 78-03109A | 53 | - | 8 | 73 | Consolidated Translation Survey For January 1964 | 1/1/1964 | 273 | Approved For Release | 3/25/2004 |
| AD0433215 | 78-03109A | 53 | - | 6 | 74 | Consolidated Translation Survey For February 1964 | 2/1/1964 | 200 | Approved For Release | 3/25/2004 |
| AD0437984 | 78-03109A | 54 | - | - | 75 | Consolidated Translation Survey For March 1964 | 3/1/1964 | 305 | Approved For Release | 3/25/2004 |
| AD0440831 | 78-03109A | 54 | - | 2 | 9/ | Consolidated Translation Survey For April 1964 | 4/1/1964 | 155 | Approved For Release | 3/25/2004 |
| AD0442174 | 78-03109A | 54 | - | 3 | 77 | Consolidated Translation Survey For May 1964 | 5/1/1964 | 249 | Approved For Release | 3/25/2004 |
| AD0443106 | 78-03109A | 54 | _ | 4 | 78 | Consolidated Translation Survey For June 1964 | 6/1/1964 | 191 | Approved For Release | 3/25/2004 |
| AD0444756 | 78-03109A | 54 | - | 2 | 79 | Consolidated Translation Survey For July 1964 | 7/1/1964 | 169 | Approved For Release | 3/25/2004 |
| AD0447557 | 78-03109A | 54 | - | 9 | 80 | Consolidated Translation Survey For August 1964 | 8/1/1964 | 153 | Approved For Release | 3/25/2004 |
| AD0450482 | 78-03109A | 54 | - | 7 | 81 | Consolidated Translation Survey For September 1964 | 9/1/1964 | 141 | Approved For Release | 3/25/2004 |
| AD0451428 | 78-03109A | 54 | - | æ | 82 | Consolidated Translation Survey For October 1964 | 10/1/1964 | 149 | Approved For Release | 3/25/2004 |
| AD0453181 | 78-03109A | 54 | - | 6 | 83 | Consolidated Translation Survey For November 1964 | 11/1/1964 | 157 | Approved For Release | 3/25/2004 |
| AD0455133 | 78-03109A | 54 | - | 10 | 84 | Consolidated Translation Survey For December 1964 | 12/1/1964 | 121 | Approved For Release | 3/25/2004 |
| AD0456859 | 78-03109A | 24 | - | Ξ | 85 | Consolidated Translation Survey For January 1965 | 1/1/1965 | 179 | Approved For Release | 3/25/2004 |
| AD0458780 | 78-03109A | 24 | • | 12 | 98 | Consolidated Translation Survey For February 1965 | 2/1/1965 | 161 | Approved For Release | 3/25/2004 |
| AD0461501 | 78-03109A | 55 | - | - | 87 | Consolidated Translation Survey For March 1965 | 3/1/1965 | 301 | Approved For Release | 3/25/2004 |